STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

FORM 6

				ENTITY A	ACTION	FORM					
Operator:	44001 11 0 1 0000			Operator Account Number: N 2525							
	city Ho	uston									
	state T	•		zip 77002			Þ	hone Nu	ımber: _	(713) 830	-6844
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E - Other	(⊨xpiain in	'comments' sec	non)			Engin Title	eering 7	ecn.		1/18/2 Date	2007
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JAN 1 8 2007

FORM 9

STATE OF UTAH
EPARTMENT OF NATURAL RESOURCES

COMPIDENCE

ı	DIVISION OF OIL, GAS AND MI		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-11124
SUNDRY	NOTICES AND REPORTS	S ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
drill horizontal la	ew wells, significantly deepen existing wells below curreterals. Use APPLICATION FOR PERMIT TO DRILL for	orm for such proposals.	7. UNIT or CA AGREEMENT NAME: 8. WELL NAME and NUMBER:
OIL WELL	GAS WELL 🚺 OTHER _		Hacking Reservoir 7-32-8-25
2. NAME OF OPERATOR: The Houston Exploration (Company		9. API NUMBER: 4304737571
3. ADDRESS OF OPERATOR:		77002 PHONE NUMBER: (713) 830-6800	10. FIELD AND POOL, OR WLDCAT: Undesignated
4. LOCATION OF WELL			I I!-A-b
FOOTAGES AT SURFACE: 2126'	FNL & 2033' FEL		соинту: Uintah
QTR/QTR, SECTION, TOWNSHIP, RAN-		5E	STATE: UTAH
11. CHECK APPE	ROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start:	ACIDIZE ALTER CASING CASING REPAIR CHANGE TO PREVIOUS PLANS	DEEPEN FRACTURE TREAT NEW CONSTRUCTION OPERATOR CHANGE	REPERFORATE CURRENT FORMATION SIDETRACK TO REPAIR WELL TEMPORARILY ABANDON TUBING REPAIR
SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	CHANGE TUBING CHANGE WELL NAME CHANGE WELL STATUS COMMINGLE PRODUCING FORMATIONS CONVERT WELL TYPE	PLUG AND ABANDON PLUG BACK PRODUCTION (START/RESUME) RECLAMATION OF WELL SITE RECOMPLETE - DIFFERENT FORMATION	VENT OR FLARE WATER DISPOSAL WATER SHUT-OFF OTHER:
	OMPLETED OPERATIONS. Clearly show all parts to change TD from 5,600 to		equested to Dustin Doucet on
NAME (PLEASE PRINT) William A	Ryan	TITLE Agent	ODPY SENT TO OPERATOR Doi: 1-23-01 Initials: RM
SIGNATURE WILLIAM	i le Typ	DATE 1/16/2006	
(This space for State use only)	Googgven ay Th	ESTATE	RECEIVED

(5/2000)

RECEIVED

JAN 2 2 2007

DIV. OF OIL, GAS & MINING

01-06 Houston Hacking Reservoir 7-32-8-25revII. Well name:

Houston Exploration Company Operator:

Project ID: Production String type: 43-047-37571

Uintah County Location:

Design parameters:

Collapse 10.000 ppg Mud weight: Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125 **Environment:**

No H2S considered? 65 °F Surface temperature: 156 °F Bottom hole temperature: Temperature gradient: 1.40 °F/100ft

Minimum section length: 1,500 ft

<u>Burst:</u>

Design factor

1.00

Adequate

1.50 (B)

Cement top:

Non-directional string.

2,689 ft

Burst

Max anticipated surface pressure:

2,597 psi Internal gradient: 0.120 psi/ft 3,377 psi Calculated BHP

No backup mud specified.

3MBOPE Tension:

Body yield:

1.80 (J) 8 Round STC: 1.80 (J) 8 Round LTC: 1.60 (J) **Buttress:** 1.50 (J) Premium:

Tension is based on buoyed weight. 5,528 ft Neutral point:

Run Seq	Segment Length (ft) 6500	Size (in) 4.5	Nominal Weight (lbs/ft) 11.60	Grade N-80	End Finish LT&C	True Vert Depth (ft) 6500	Measured Depth (ft) 6500	Drift Diameter (in) 3.875	Internal Capacity (ft³) 567.2
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3377	6350	1.881	3377	"7780	2.30 V	64	223	3.48 J

Dustin K. Doucet Prepared Div of Oil, Gas & Minerals Phone: 801-538-5281 FAX: 810-359-3940

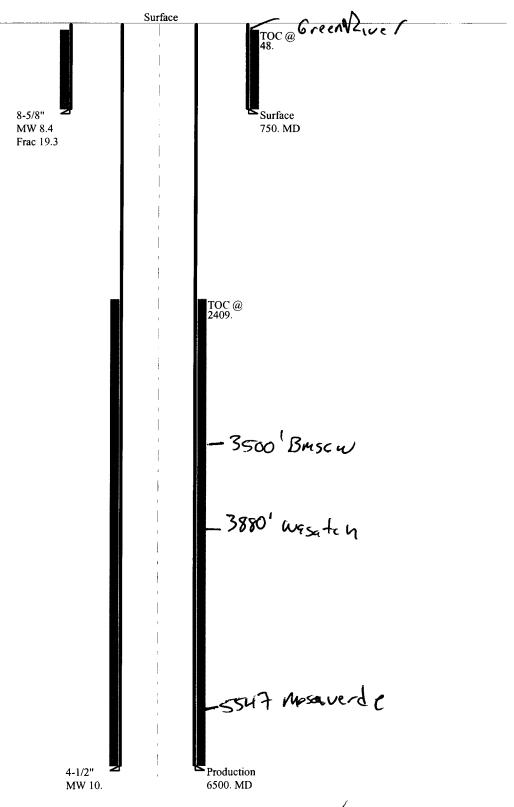
Date: January 18,2007 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 6500 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

01-06 Houston Hacking Reservoir 7-32-8-25revII.
Casing Schematic



V 6. R. DND

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

AMENDED REPORT	
(highlight changes)	

DIV. OF OIL, GAS & MINING

			· · · · · · · · · · · · · · · · · · ·						changes)
	A	PPLICAT	ION FOR F	PERMIT TO	DRILL		5. MINERAL LEASE ML-11124		6. SURFACE: Federal
1A. TYPE OF WO	DRK: DR	RILL 🗾	REENTER	DEEPEN			7. IF INDIAN, ALLOT	TEE OR TE	RIBE NAME:
B. TYPE OF WE	ELL: OIL .	GAS 🗾 (OTHER	SIN	GLE ZONE MULTIPLE ZON	E 🗸	8. UNIT or CA AGRE	EMENT NA	ME:
	on Exploratio	n Company	,				9. WELL NAME and I Hacking Res		7-32-8-25
3. ADDRESS OF	operator: siiana, Suit 20) Houst	nn	TY 77	002 PHONE NUMBER: (713) 830-6800		10. FIELD AND POO	L, OR WILE	DCAT:
4. LOCATION OF	WELL (FOOTAGES	S)		E TX ZIP 770	40.080398		Undisignate 11. QTR/QTR, SECT		Lidea A
AT SURFACE:	2,126' FNL	& 2,033' FE	المورين الح	1X	70.080398		MERIDIAN:		, ,
AT PROPOSED	D PRODUCING ZON	E: Same as	above	yoy -	109.122204		SWNE 32	188	25E
14. DISTANCE IN	MILES AND DIREC	TION FROM NEAF	REST TOWN OR POS	T OFFICE:	-		12. COUNTY:	Т	13. STATE:
	s south of Ve	•					Uintah		UTAH
	O NEAREST PROPE	RTY OR LEASE L	INE (FEET)	16. NUMBER O	F ACRES IN LEASE:	17. N	JMBER OF ACRES AS	SIGNED T	O THIS WELL:
2,033'					600	1			40
APPLIED FOI	O NEAREST WELL (R) ON THIS LEASE (LETED, OR	19. PROPOSED	DEPTH:	20. B	OND DESCRIPTION:		
1,200'	S (SHOW WHETHER				5,600	<u>L</u>	4155044		
	•	DF, RT, GR, ETC	.):	1	ATE DATE WORK WILL START:	I	STIMATED DURATION	:	
5,438' GR 1/15/20			1/13/200		30	Days			
24.		_	PROPOSE	ED CASING A	ND CEMENTING PROGRAM				
SIZE OF HOLE		RADE, AND WEIG	HT PER FOOT	SETTING DEPTH	CEMENT TYPE, QU	ANTITY,	YIELD, AND SLURRY	WEIGHT	
11"	9 5/8	J-55	36#	2,000	Premium Lite II	25	0 sks 3.	38 CF	11.0 PPC
					Class "G"	32	9 sks 1	.2 CF	15.6 PPC
					Calcium Chloride	20	0 sks 1.	10 CF	15.6 PPC
7 7/8	4 1/2	N-80	11.6#	5,600	Premium Lite II	20	0 sks 3	3.3 CF	11.0 PPC
					Class "G"	40	0 sks 1.	56 CF	14.3 PPC
								*	
25.	<u></u>		····	A TT A		·	-		
					CHMENTS		CUNLIL	IFN]	
VERIFY THE FOI	LLOWING ARE ATTA	ACHED IN ACCOR	DANCE WITH THE U	TAH OIL AND GAS C	ONSERVATION GENERAL RULES:		COMIL	LIN	11/14
✓ WELL PL	_AT OR MAP PREPA	RED BY LICENSE	D SURVEYOR OR EN	IGINEER	COMPLETE DRILLING PLAN				
Z EVIDENC	CE OF DIVISION OF	WATER RIGHTS A	APPROVAL FOR USE	OF WATER	FORM 5, IF OPERATOR IS PE	RSON C	OR COMPANY OTHER	THAN THE	I EASE OWNED
							AC GOMM FORT OTTIER	7777	LEASE OWNER
NAME (PLEASE	DDINT, William	A. B yan -			TITLE Agent				
TWINE (FEELOL	177) —						
SIGNATURE	Willen	~ Wy			DATE 12.20.05	2			
(This space for Sta	ate use only)	U		· ·		-			
				## · ·	Approved by the	Ê	ECEIVE	D	
	2	12. 21-	2 m	₽ +	Utah Division of Oil, Gas and Mining	-	3 7		
API NUMBER AS	SSIGNED:	13-047	-37571		APPROVAL: AND MINING		DEC 27 200)5	

(11/2001)

THE HOUSTON EXPLORATION COMPANY T8S, R25E, S.L.B.&M. Well location, HACKING RESERVOIR #7-32-8-25. located as shown in the SW 1/4 NE 1/4 of 1935 Brass Cap Section 32, T8S, R25E, S.L.B.&M. Uintah County. 1935 Brass Cap 0.8' High S89°58'22"E - 2634.92' (Meas.) S89'58'21"E - 2634.15' (Meas.) Utah. BASIS OF ELEVATION 1935 Brass Cap 0.9' High SPOT ELEVATION LOCATED AT A TRAIL CROSSING IN THE SW 1/4 CORNER OF SECTION 4, T9S, R25E, S.L.B.&M. TAKEN FROM THE WALSH KNOLLS, QUADRANGLE, UTAH-COLORADO, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY, SAID 26, ELEVATION IS MARKED AS BEING 5607 FEET. BASIS OF BEARINGS BASIS OF BEARINGS IS A G.P.S. OBSERVATION 203 2033 HACKING RESERVOIR #7-32-8-25 200 Elev. Ungraded Ground = 5438 32 1935 Brass Cap 1.6' High 1935 Brass Cap 0.5' High, Pile of Stones SCALE CERTIFICATE THIS IS TO CERTIFY THAT THE ABOVE THE WAS PREMARED FROM FIELD NOTES OF ACTUAL SURVEYS TRUE AND COMPECT TO THE SERVE TO THE SERVE AND COMPECT TO TH 7,, 50, 90, 00N BEST OF MY KNOWLEDGE AND S00.02,29 W.C. 1935 Brass 1935 Brass Cap 0.5' Cap 0.5' High, Pile High, Set Stone T8SLANDUSURVEYING UINTAH ENGINEERING N89°57'46"W - 2498.45' (Meas.) N89°56'41"W - 2641.01' (Meas.) T9SPosition 85 SOUTH 200 EAST - VERNAL, UTAH 84078 1935 Brass Cap -132.00' (G.L.O.) 0.7' High (435) 789-1017 (AUTONOMOUS NAD 83) LEGEND: SCALE LATITUDE = $40^{\circ}04'49.53''$ (40.080425) DATE SURVEYED: DATE DRAWN: 1" = 1000'LONGITUDE = $109^{\circ}07^{\circ}22.37^{\circ}$ (109.122881) 11-9-05 11-17-05 = 90° SYMBOL PARTY REFERENCES (AUTONOMOUS NAD 27) = PROPOSED WELL HEAD. N.H. D.S. E.C.O. LATITUDE = $40^{\circ}04'49.65''$ (40.080458) G.L.O. PLAT = SECTION CORNERS LOCATED. LONGITUDE = 109'07'19.95" (109.122208) WEATHER = TRUE POSITION. COOL THE HOUSTON EXPLORATION COMPANY

Ten Point Plan

The Houston Exploration Company

Hacking Reservoir 7-32-8-25

Surface Location SW 1/4 NE 1/4, Section 32, T. 8S., R. 25E.

1. Surface Formation

Green River

2. Estimated Formation Tops and Datum:

Formation	Depth	Datum
Green River	Surface	+5,438' G.L.
Uteland Butte Limestone	3,746	+1,692'
Wasatch	3,880	+1,558'
Mesaverda	5,547	-109'
TD	6,500'	-1,062'

A 11" hole will be drilled to 2,000' +/-. The hole depth will depend on the depth that the Birds Nest Zone is encountered. The hole will be drilled 400' beyond the top of the Birds Nest.

3. Producing Formation Depth:

Formation objective includes the Green River, Wasatch, Mesaverde and its submembers.

Off Set Well information:

Proposed Well:

Hacking Reservoir #15-32-8-25 Hacking Reservoir #11-32-8-25 Hacking Reservoir #9-32-8-25 Hacking Reservoir #5-32-8-25 Hacking Reservoir #3-32-8-25

Shut in Well:

C.S. #32-2

Abandoned Well:

C.B. #33-5

4. Proposed Casing:

Hole	Casing			Setting	Casing	
<u>Size</u>	<u>Size</u>	Weight/FT	<u>Grade</u>	& Tread	Depth	New/Used
11	9 5/8	36#	J-55	STC	2000	NEW
7 7/8	$4\frac{1}{2}$	11.6#	N-80	LTC	T.D.	NEW

Cement Program:

The Surface Casing will be cemented to the Surface as follows:

Lead:	Casing <u>Size</u>	Cement Type	Cement Amounts	Cement <u>Yield</u>	Cement Weight
Zoud.	9 5/8	Premium Lite II .05#/sk Static Free .25#/sk Cello Flake 5#/sk KOL Seal .002 gps FP-6L 10% Bentonite .5% Sodium Metasil 3% Potassium Chlor		3.38ft³/sk	11.0 ppg
Tail:					
	9 5/8	Class "G" 2% Calcium Chlorid .25#/sk Cello Flake	329 sks. +/- e	1.2ft³/sk	15.6 ppg
Top Jo	ob:				
	9 5/8	4% Calcium Chloride .25#/sk Cello Flake	200 sks. +	/-1.10ft³/sk	15.6 ppg

Production casing will be cemented to 2,500' or higher as follows:

	Casing	Cement	Cement	Cement	Cement
	<u>Size</u>	<u>Type</u>	<u>Amounts</u>	<u>Yield</u>	Weight
Lead:					
	4 1/2	Premium Lite II .25#/sk Cello Flake .05#/sk Static Free 5#/sk Kol Seal 3% Potassium Chlor .055 gps FP-6L 10% Bentonite .5 Sodium Metasilica		3.3ft³/sk	11.0 ppg

Tail:

4 1/2 Class "G" 400 sks +/- 1.56ft³/sk 14.3 ppg
.05% Static Free
2 Sodium Chloride
.1% R-3
2% Bentonite

5. BOP and Pressure Containment Data:

The anticipated bottom hole pressure will be less than 3000 psi.

A 3000-psi WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from the 9 5/8" surface casing. The BOP system including the casing will be pressure tested to minimum standards set forth in "On Shore Order #2". The BOP will be mechanically checked daily during the drilling operation.

6. Mud Program:

<u>Interval</u>	Mud weight <u>lbs./gal.</u>	Viscosity Sec./OT.	Fluid Loss Ml/30 Mins.	Mud Type
0-2000 2000-T.D.	Air/Clear Water 8.4-12.0	30	No Control 8-10	Water/Gel Water/Gel

7. Auxiliary Equipment

Upper Kelly cock, full opening stabbing valve, 2 1/2" choke manifold and pit level indicator.

8. Testing, Coring, Sampling and Logging:

a) Test: None are anticipated.

b) Coring: There is the possibility of sidewall coring.

c) Sampling:

Every 10' from 2000' to T.D.

Logging: d)

Type

Interval

DLL/SFL W/GR and SP

T.D. to Surf. Csg

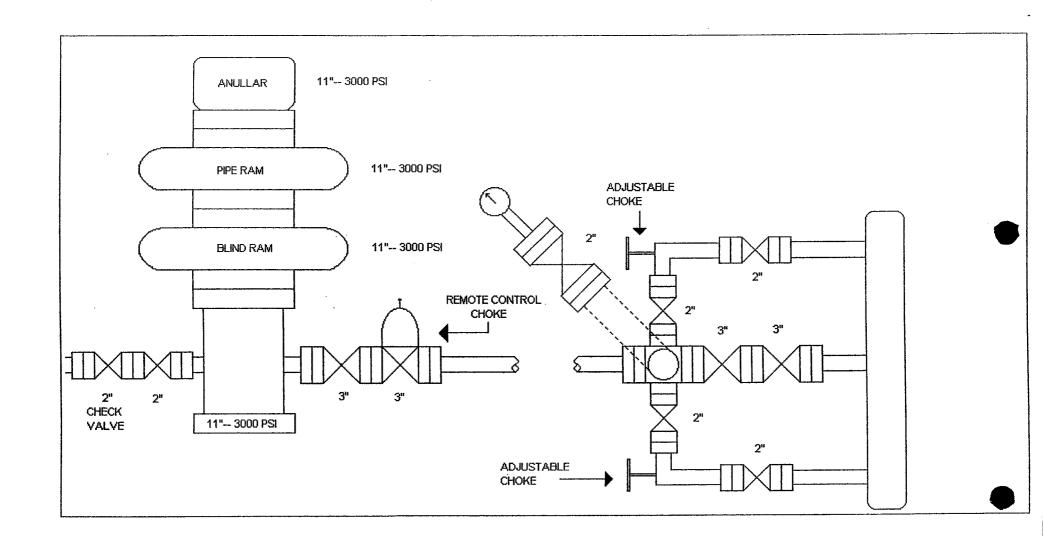
FDC/CNL W/GR and CAL T.D. to Surf. Csg

9. Abnormalities (including sour gas):

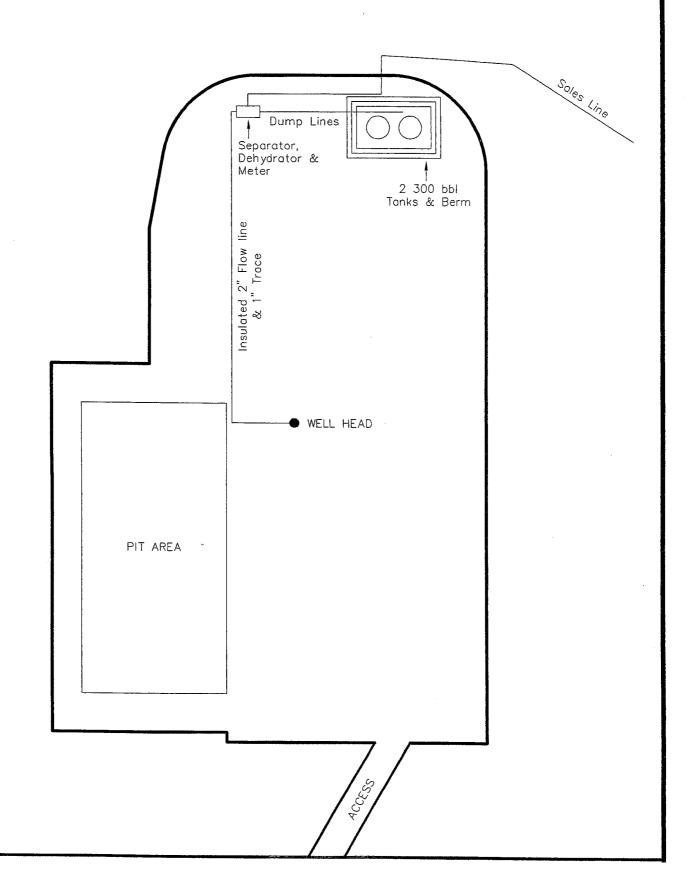
No abnormal pressures, temperatures or other hazards are anticipated. Oil and gas shows are anticipated in the Wasatch Formation. Other wells drilled in the area have not encountered over pressured zones or H2S.

10. Drilling Schedule:

The anticipated starting date is <u>01/15/2006</u> Duration of operations is expected to be 30 days.



TYPICAL PRODUCTION LAYOUT



THE HOUSTON EXPLORATION COMPANY 13 POINT SURFACE USE PLAN

FOR WELL

HACKING RESERVIOR 7-32-8-25

LOCATED IN SW 1/4 NE 1/4

SECTION 32, T.8S, R25E, S.L.B.&M.

UINTAH COUNTY, UTAH

LEASE NUMBER: ML-11124

SURFACE OWNERSHIP: FEDERAL

1. Existing Roads:

To reach The Houston Exploration Co. well Hacking Reservoir 7-32-8-25 in Section 32, T8S, R 25E, starting in Vernal, Utah:

Proceed in an easterly, then southerly, then southeasterly direction from Vernal, UT along **US Highway 40 approximately** 25.0 miles to the junction of this road and an existing road to the south; turn right and proceed in a southerly, then southeasterly, then southwesterly direction approximately 13.7 miles to the junction of this road and an existing road to the southeast; turn left and proceed in a southwesterly, then northeasterly, then southeasterly, then southwesterly direction approximately 3.4 miles to the beginning of the proposed access to the southwest; follow road flags in a southwesterly, then southeasterly, then northwesterly direction approximately 1.3 miles to the proposed access for the 15-32-8-25 to the southwest; follow road flags in a southwesterly, ten southeasterly direction approximately 0.7 miles to the beginning of the proposed access to the northeast; follow road flags in a northeasterly direction approximately 0.1 miles to the proposed location.

Total distance from Vernal, Utah to the proposed well location is approximately 42.9 miles.

All existing roads to the proposed location are State of Utah, BLM maintained or County Class D roads. Please see the attached map for additional details.

2. Planned access road

The proposed access road will be approximately 528' +/- of new construction on lease. The road will be graded once per year minimum and maintained.

A) Approximate length	528 ft
B) Right of Way width	30 ft
C) Running surface	18 ft
D) Surface material	Native soil
E) Maximum grade	5%
F) Fence crossing	None
G) Culvert	None
H) Turnouts	None
I) Major cuts and fills	None
J) Road Flagged	Yes
K) Access road surface	ownership
,	Federal
T \ A11 4 41	

L) All new construction on lease

No

M) Pipe line crossing None

Please see the attached location plat for additional details.

An off lease right-of-way will be required.

All surface disturbances for the road and location will be within the lease boundary.

3. Location of existing wells

The following wells are located within
a one-mile radius of the location site.

A) Producing well

None

B) Water well

None

- C) Abandoned well C.B. #33-5
- D) Temp. abandoned well None
- E) Disposal well

None

- F) Drilling /Permitted well Hacking Reservoir 11-32-8-25 Hacking Reservoir 9-32-8-25 Hacking Reservoir 15-32-8-25 Hacking Reservoir 3-32-8-25 Hacking Reservoir 3-32-8-25
- G) Shut in wells C.S. 32-2
- H) Injection well

None

I) Monitoring or observation well None

Please see the attached map for additional details.

4. Location of tank batteries, production facilities and production gathering service lines.

All production facilities are to be contained within the proposed location site. Please see the attached plat plan for a typical gas well separator installation and well site piping.

All permanent (on site for more than six months or longer) structures constructed or installed will be painted an **Carlsbad Canyon** color. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded. The required paint color is **Carlsbad Canyon**.

All tanks will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest

tank in the battery. The integrity of the dike will be maintained.

All off lease storage, off lease measurement, commingling on lease or off lease, of production, will have prior written approval form the authorized officer.

If the well is capable of economic production a surface gas line will be required.

Approximately 1100' of 3" steel surface gas gathering line would be constructed on Federal Lands. The line will tie into the proposed pipeline in Section 32, T8S, R25E. The pipeline would be strung and boomed to the southwest of the location. The pipeline may be buried as determined by the Authorized Officer at the onsite.

An off lease right-of-way will not be required.

Please see the attached location diagrams for pipeline location.

The gas meter run will be located within 500' of the wellhead. The gas line will be buried or anchored down from the wellhead to the meter. Meter runs will be housed and/or fenced.

The gas meter will be calibrated and the tank strapped in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The authorized officer will be provided with a date and time for the initial meter calibration and all future meter-

proving schedules. A copy of the meter calibration report will be submitted to the BLM's Vernal District office and State of Utah, Division of Oil, Gas, and Mining. All measurement facilities will conform to API (American Petroleum Institute) and AGA (American Gas Association) standards for gas and liquid hydrocarbon measurement.

5. Location and type of water supply

Water for drilling and cementing will come from The White River in Permit #T-76073.

6. Source of construction materials

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. Additional road gravel or pit lining material will be obtained from private resources.

7. Methods for handling waste disposal

A) Pit construction and liners:

The reserve pit will be approximately 12 ft. deep and most of the depth shall be below the surface of the existing ground Please see the attached plat for details.

The reserve pit will be lined.

The reserve pit will be used to store water for drilling. A semiclosed system will be used to drill the well. All fresh water for drilling will come from a frac tank placed on location and from the rig tank. The pit will be used to hold non-flammable materials such as cuttings, salt, drilling fluids, chemicals, produced fluids, etc.

B) Produced fluids:

Produced water will be confined to the reserve pit, or if deemed necessary, a storage tank for a period not to exceed 90 days after initial production. During the 90-day period an application for approval for permanent disposal method and location will be submitted to the authorized officer. Evaporation may be used instead of trucking to facilitate closing and reclamation of the reserve pit. A pumping system would be used for evaporation.

C) Garbage:

A trash cage fabricated from expanded metal will be used to hold trash on location and will be removed to an authorized landfill location.

D) Sewage:

A portable chemical toilet will be supplied for human waste.

E) Site clean-up:

After the rig is moved off the location the well site area will be cleaned and all refuse removed.

8. Ancillary facilities

There are no ancillary facilities planned at this time and none are foreseen for the future.

9. Well-site layout

Location dimensions are as follows:

A) Pad length	345 ft.
B) Pad width	245 ft.
C) Pit depth	12 ft.
D) Pit length	150 ft.
E) Pit width	75 ft.
F) Max cut	15.5 ft.
G) Max fill	2.4 ft.
H) Total cut yds.	6,590 cu yds

H) Total cut yds. 6,590 cu yds
I) Pit location East end

J) Top soil location North end

K) Access road location

West end corner C

L) Flare Pit

Please see the attached location diagram for additional details.

All pits will be fenced according to the following minimum standards:

- A) Thirty nine inch net wire shall be used with at least one strand of wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- B) The net wire shall be no more than 2 inches above the ground. The barbed wire shall be 3 inches above the net wire. Total height of the fence shall be at leas 42 inches.

- C) Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- D) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 ft.
- E) All wire shall be stretched by using a stretching device before it is attached to the corner posts.
- 10. Plans for restoration of the surface

Prior to construction of the location. the top 6 inches of soil material will be stripped off the location and the pit area. The topsoil removed and piled will amount to approximately 1,590 cubic yards of material. Topsoil will be stockpiled in one distinct pile. Placement of the topsoil is noted on the attached location plat. The topsoil pile from the location will be seeded as soon as the soil is stock piled with the seed mix listed. When all drilling and completion activities have been completed and the pit back-filled the topsoil from the pit area will be spread on the pit area. The pit area will be seeded when the soil has been spread. The unused portion of the location (the area outside the dead men) will be re-contoured.

The dirt contractor will be provided with an approved copy of the

surface use plan prior to construction activities.

Changes to the drainage during the construction activities shall be restored to its original line of flow or as near as possible when the pit is back-filled

All disturbed areas will be recontoured to the approximate natural contours. Prior to back filling the pit the fences around the reserve pit will be removed.

The reserve pit will be reclaimed within 90 days of well completion. If the reserve pit has not dried sufficiently to allow back filling, an extension on the time requirement for back filling the pit will be requested. Once reclamation activities have begun, they shall be completed within 30 days.

After the reserve pit has been reclaimed, no depressions in the soil covering the reserve pit will be allowed. The objective is to keep seasonal rainfall and run off from seeping into the soil used to cover the reserve pit. Diversion ditches and water bars will be used to divert the run off as needed.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas will be scarified and left with a rough surface.

A) Seeding dates:

Seed will be spread when topsoil is stock piled and when reclamation work is performed.

The seed mix and quantity list will be used whether the seed is broadcast or drilled.

B) Seed Mix

To be determined by the Authorized Officer.

11. Surface ownership:

Access road	Federal
Location	Federal
Pipe line	Federal

12. Other information:

A) Vegetation

The vegetation coverage is Slight. The majority of the existing vegetation consists of non-native species. Rabbit brush, bitter brush, and Indian Rice grass and Sagebrush are also found on the location.

B) Dwellings:

There are no dwellings or other facilities within a one-mile radius of the location.

C) Archeology:

The location has been surveyed. A copy of that survey will be forwarded to your office.

If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the antiquities act of June 8, 1906) are discovered, all operations, which would affect such sites, will be suspended and the discovery reported promptly to the surface management agency.

D) Water:

The nearest water is the Hacking Reservoir located approximately 2 miles to the North.

E) Chemicals:

No pesticides, herbicides or other possible hazardous chemicals will be used without prior application.

F) Notification:

- a) Location Construction At least forty eight (48) hours prior to construction of location and access roads.
- b) Location completion Prior to moving on the drilling rig.
- c) Spud notice At least twenty-four (24) hours prior to spudding the well.
- d) Casing string and

cementing
At least twenty-four (24)
hours prior to running
casing and cementing all
casing strings.

- e) BOP and related equipment tests At least twenty-four (24) hours prior to initial pressure tests.
- f) First production notice Within five (5) business days after the new well begins, or production resumes after well has been off production for more than 90 days.

G) Flare pit:

The flare pit will be located in **corner** C of the reserve pit out side the pit fences and 100 feet from the bore hole on the east side of the location. All fluids will be removed from the pit within 48 hours of occurrence.

13. Lessees or Operator's representative and certification

A) Representative

William A. Ryan Rocky Mountain Consulting 290 S 800 E Vernal, UT 84078

Office 435-789-0968 Fax 435-789-0970 Cellular 435-828-0968

All lease and/or unit operations will be conducted in such a manner that full compliance is

made with all applicable laws, regulations, onshore oil and gas orders, and any applicable notices to lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

This drilling permit will be valid for a period of one year from the date of approval.

After permit termination, a new application will be filed for approval for any future operations.

B) Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route that I am familiar with the conditions which presently exist, that the statements made in this plan are, to the best of my knowledge and belief, true and correct, and that the work associated with the operation proposed herein will be preformed by The Houston **Exploration Company and its** contractors and subcontractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.

Date 12. 20.05

William A. Ryan, Agent

Rocky Mountain Consulting

Onsite Dates:

Statement of use of Hazardous Materials

No chemical(s) from the EPA's consolidated list of Chemicals subject to Reporting under Title III of the Superfund Amendments and Reauthorization, Act (SARA) of 1986 will be used, produced, transported, stored, disposed, or associated with the proposed action. No extremely hazardous substances, as defined in 40 cfr 355, will be used, produced, stored, transported, disposed, or associated with the proposed action.

If you require additional information please contact:

William A Ryan Agent for The Houston Exploration Company Rocky Mountain Consulting 290 S 800 E Vernal, UT 84078

435-789-0968 Office 435-828-0968 Cell 435-789-0970 Fax

THE HOUSTON EXPLORATION COMPANY

HACKING RESERVOIR #7-32-8-25

LOCATED IN UINTAH COUNTY, UTAH **SECTION 32, T8S, R25E, S.L.B.&M.**

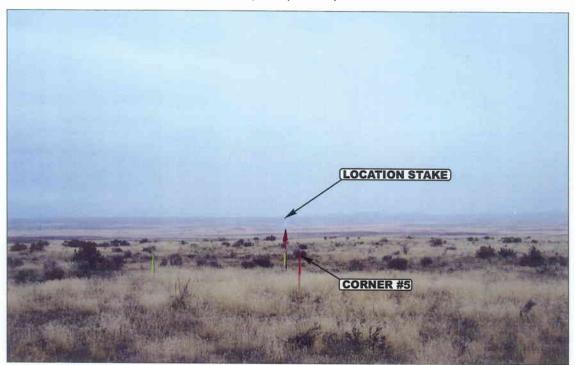


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY

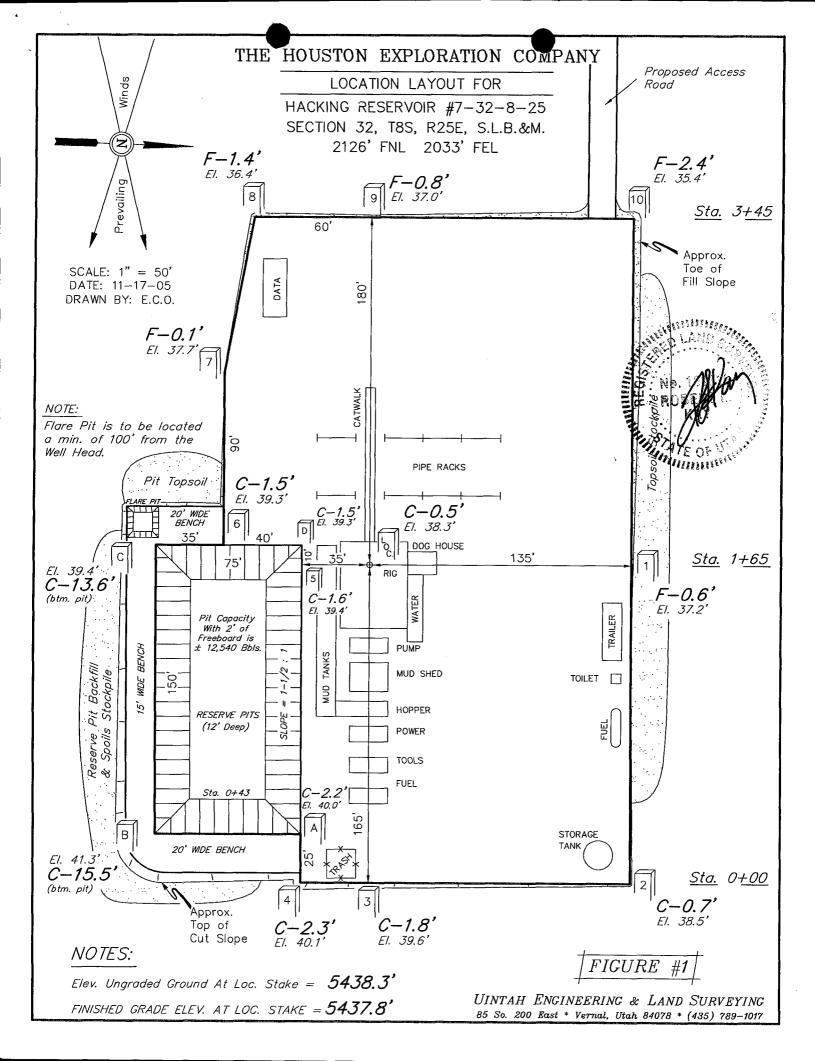


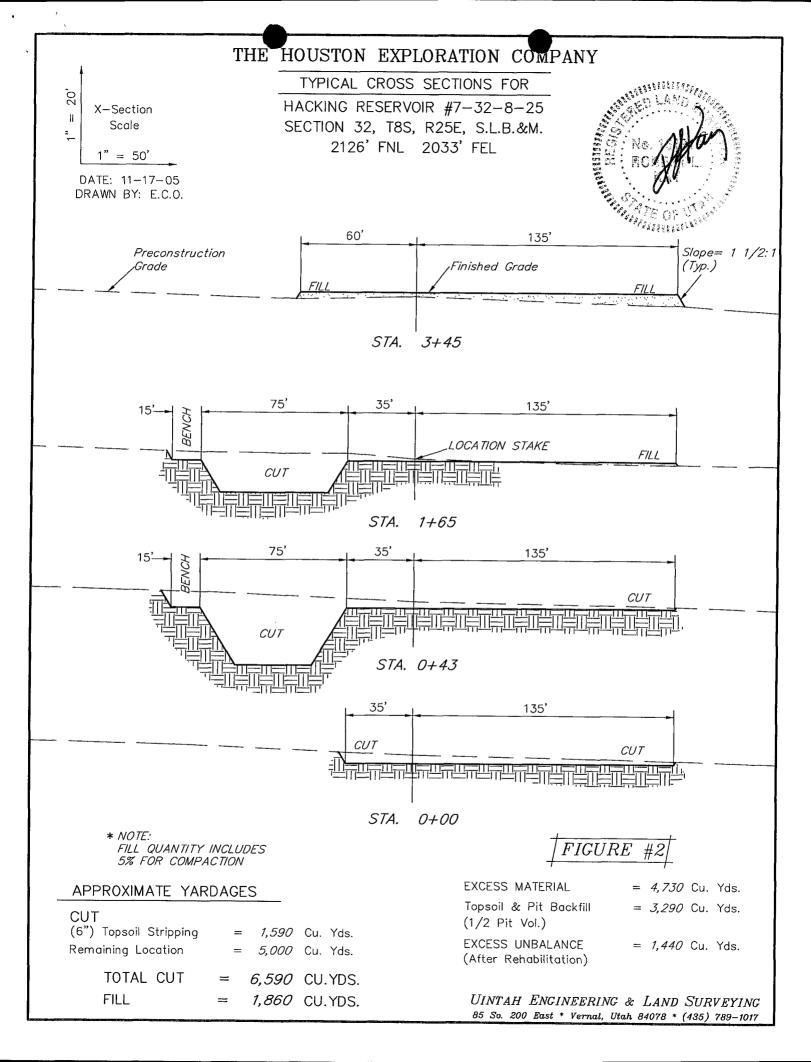
Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 435-789-1017 uels@uelsinc.com

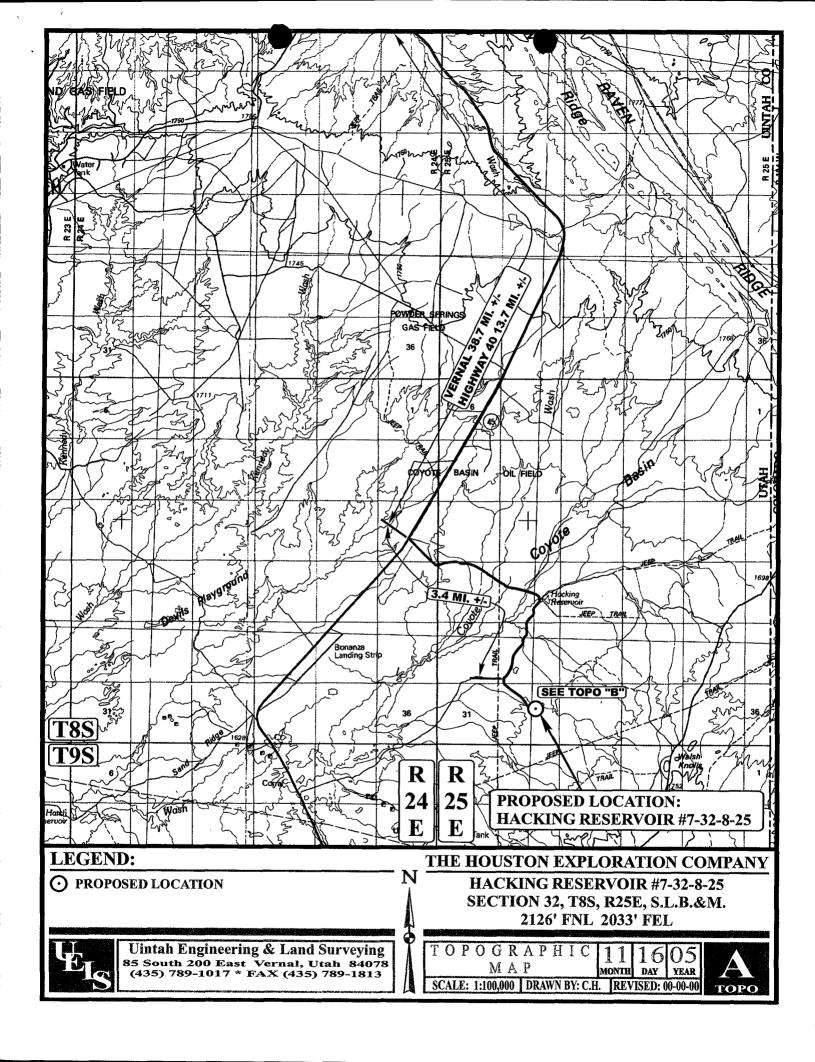
LOCATION PHOTOS

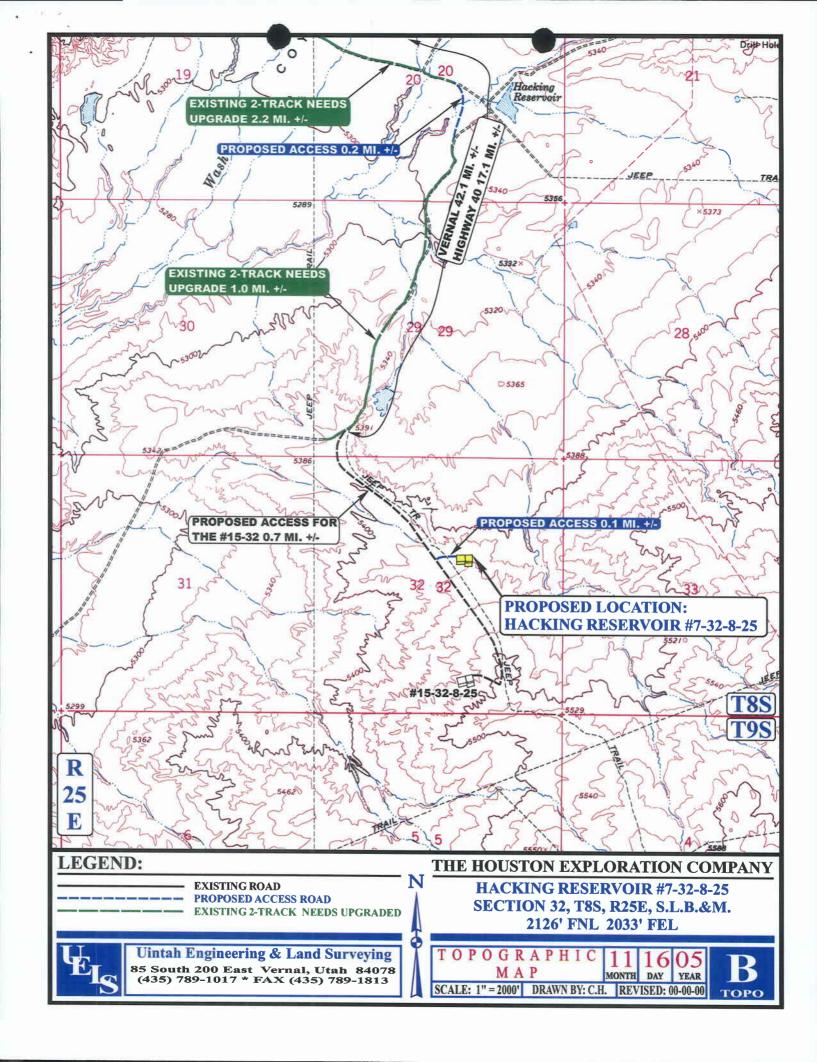
MONTH DAY YEAR TAKEN BY: N.H. DRAWN BY: C.H. REVISED: 00-00-00

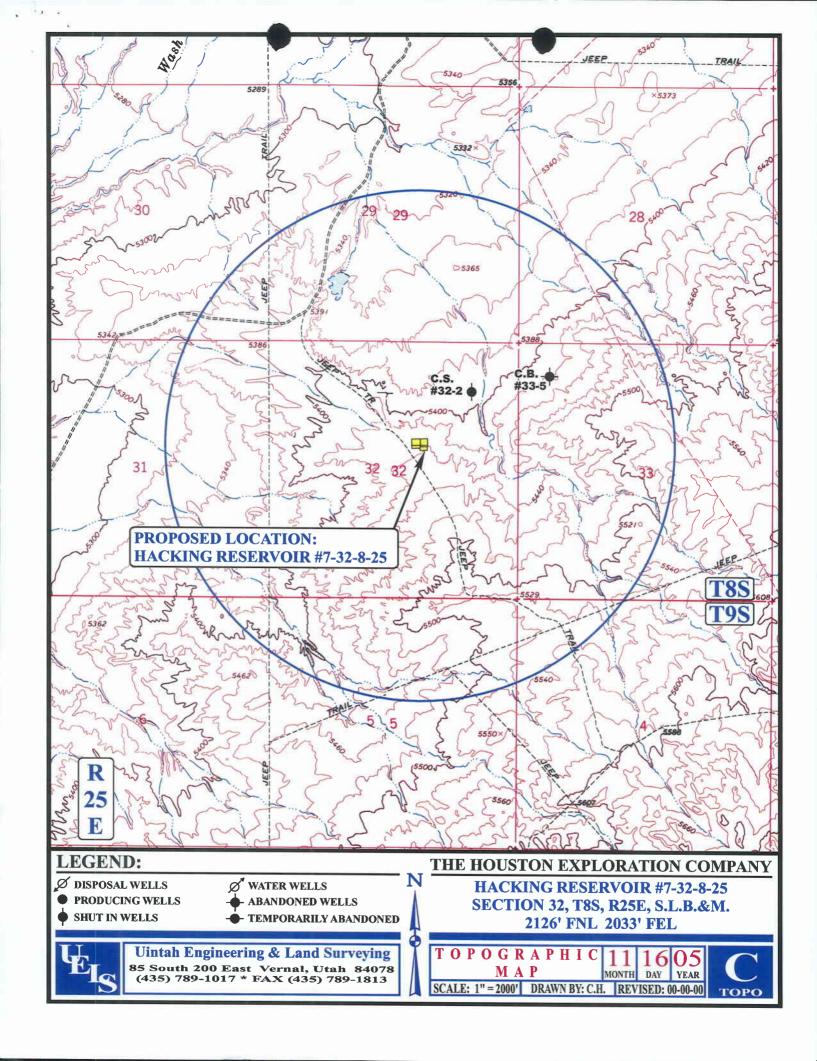
РНОТО

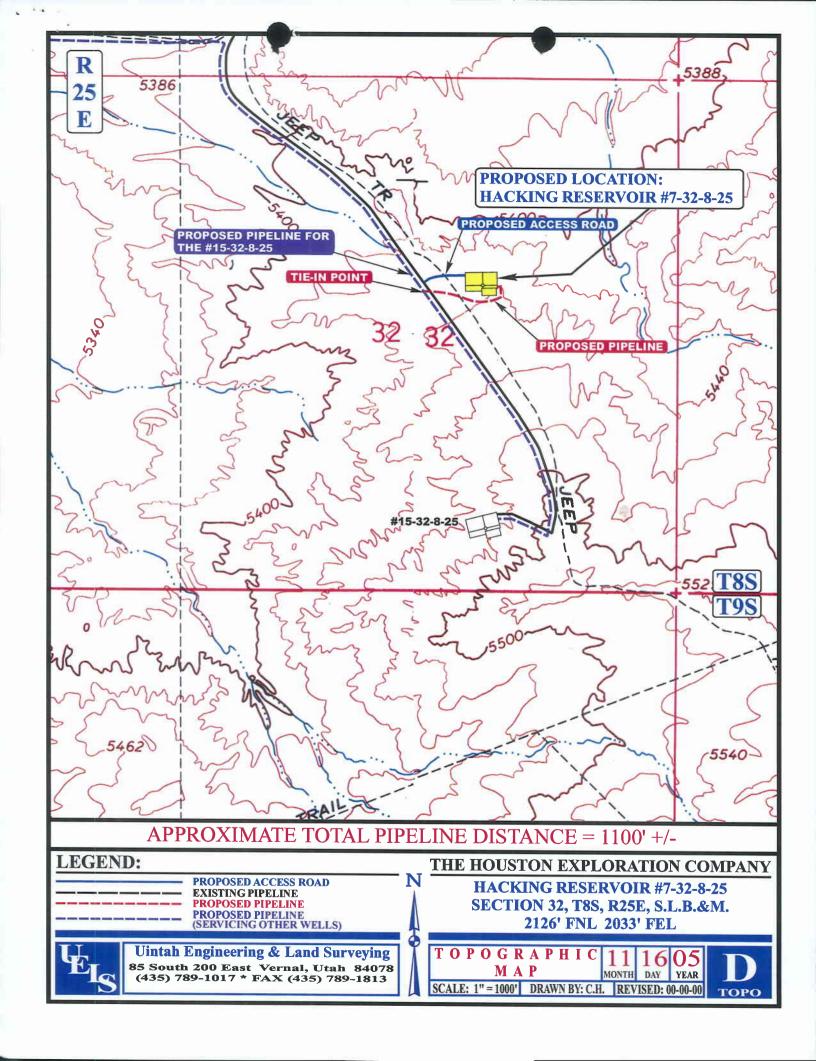




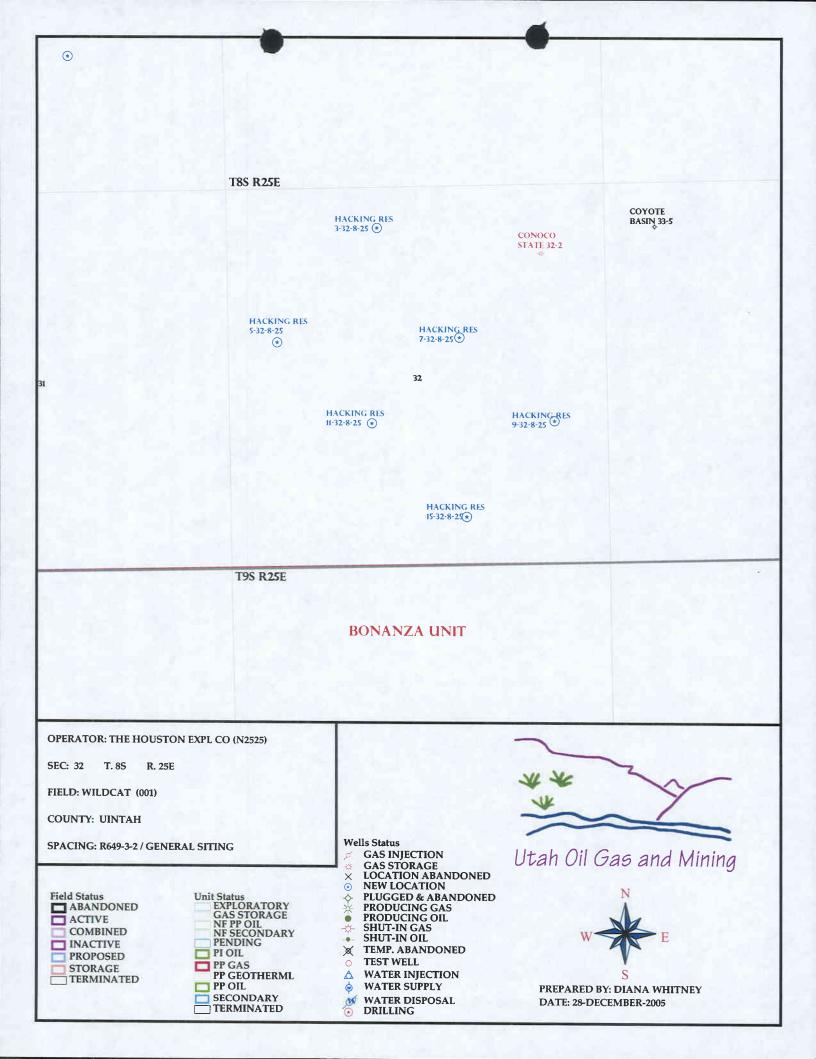








API NO. ASSIGN	ED: 43-047-375	71	
PHONE NUMBER: $\frac{4}{}$	35-789-0968		
INSPECT LOCATE	1 BY: /	/	
Tech Review	Initials	Date	
Engineering	DIN	1/4/04	
Geology			
Surface			
LATITUDE: 40.08040 LONGITUDE: -109.1222			
LOCATION AND SITING: R649-2-3. Unit R649-3-2. General Siting: 460 From Qtr/Qtr & 920' Between Wells R649-3-3. Exception Drilling Unit Board Cause No: Eff Date: Siting: R649-3-11. Directional Drill			
	PHONE NUMBER: 4 INSPECT LOCATA Tech Review Engineering Geology Surface LATITUDE: 40.0 LOCATION AND SITE R649-2-3. Unit R649-3-2. Siting: 460 B R649-3-3. Drilling Unit Board Cause Eff Date: Siting: 4	Tech Review Initials Engineering	



DIVISION OF OIL, GAS AND MINING APPLICATION FOR PERMIT TO DRILL STATEMENT OF BASIS

OPERATOR: THE HOUSTON EXPLORATION COMPANY				
WELL NAME & NUMBER: HACKING RESERVOIR 7-32-8-25				
API NUMBER: 43-047-37571				
LOCATION: 1/4,1/4 <u>SWNE Sec: 32</u> TWP: <u>8S RNG: 25E 2126' FSL 2033' FEL</u>				
Geology/Ground Water:				
Geology Ground Water.				
The Houston Ex. Co. proposes to set 2000 feet of surface casing cemented to the surface. The base of the moderately saline water is estimated at 3,500 feet. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 32. The surface formation at this location is the Uinta Formation. The Uinta Formation is made up of discontinuous sands interbedded with shales and are not expected to produce prolific aquifers. The proposed surface casing should adequately protect any near surface aquifers.				
Reviewer: Brad Hill Date: 01/12/2006				
Surface:				
The pre-site investigation of the surface was performed on 12/19/05. This site is on State surface, with state minerals. Jim Davis of SITLA was present but stated no concerns with drilling at this site. Ben Williams of DWR				
stated that this site is high value pronghorn habitat, and sage grouse brood habitat, but made no requests.				
Reviewer: Richard Powell Date: 12/19/2005				

Conditions of Approval/Application for Permit to Drill:

1. A synthetic liner with a minimum thickness of 16 mils and a felt subliner shall be properly installed and maintained in the reserve pit

STATE ACTIONS

Resource Development Coordinating Committee Governor's Office of Planning and Budget

5110 State Office Building

SLC, UT 84114 Phone No. 537-9230

1. State Agency

Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, UT 84114-5801 2. Approximate date project will start:

Upon Approval or January 11, 2006

3. Title of proposed action:

Application for Permit to Drill

4. Description of Project:

The Houston Exploration Company proposes to drill the Hacking Reservoir 7-32-8-25 well (wildcat) on State lease ML-11124, Uintah County, Utah. This action is being presented to the RDCC for consideration of resource issues affecting state interests. The Division of Oil, Gas and Mining is the primary administrative agency in this action and must issue approval before operations commence.

5. Location and detailed map of land affected (site location map required, electronic GIS map preferred)

(include UTM coordinates where possible) (indicate county)

2126' FNL 2033' FEL, SW/4 NE/4,

Section 32, Township 8 South, Range 25 East, Uintah County, Utah

6. Possible significant impacts likely to occur:

Surface impacts include up to five acres of surface disturbance during the drilling and completion phase (estimated for five weeks duration). If oil and gas in commercial quantities is discovered, the location will be reclaimed back to a net disturbance of between one and two acres – not including road, pipeline, or utility infrastructure. If no oil or gas is discovered, the location will be completely reclaimed.

- 7. Identify local government affected
 - a. Has the government been contacted? No
 - b. When?
 - c. What was the response?
 - d. If no response, how is the local government(s) likely to be impacted?
- 8. For acquisitions of land or interests in land by DWR or State Parks please identify state representative and state senator for the project area. Name and phone number of state representative, state senator near project site, if applicable:
 - a. Has the representative and senator been contacted? N/A

9. Areawide clearinghouse(s) receiving state action:	(to be sent out by agency in block 1)
Uintah Basin Association of Governments	

10. For further information, contact:

11. Signature and title of authorized officer

Diana Whitney

Phone: (801) 538-5312

(for) Gil Hunt, Associate Director

Date: December 28, 2005

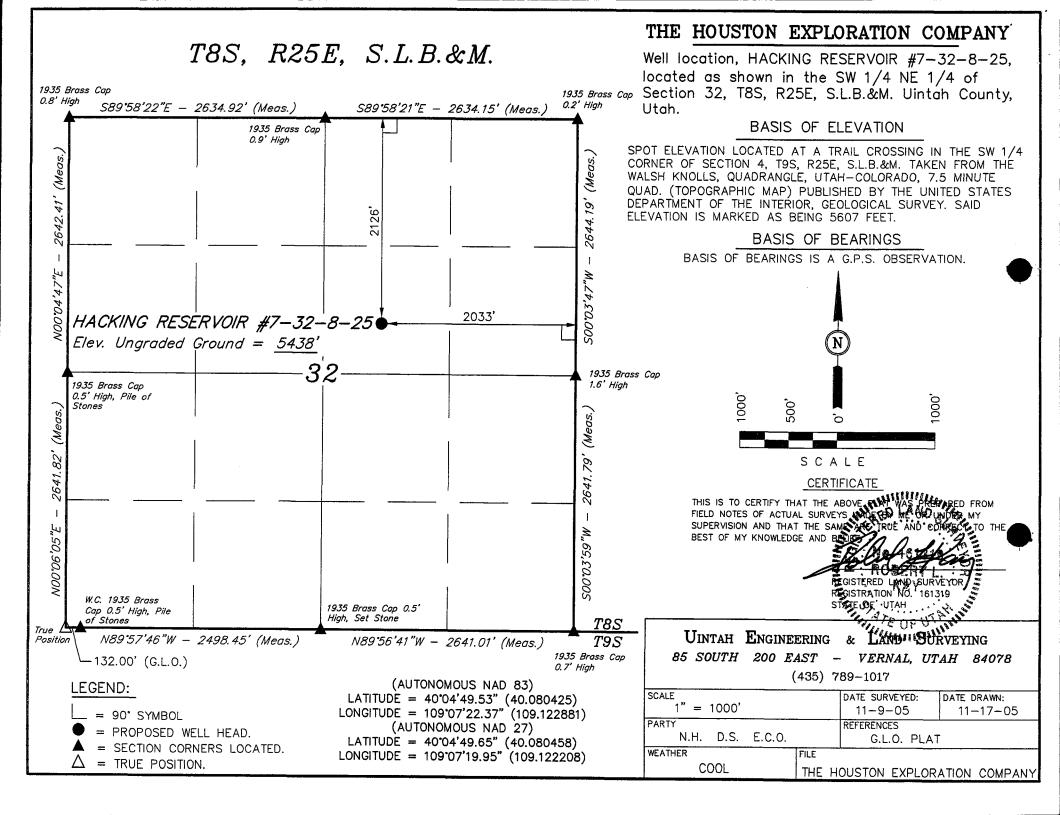
STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

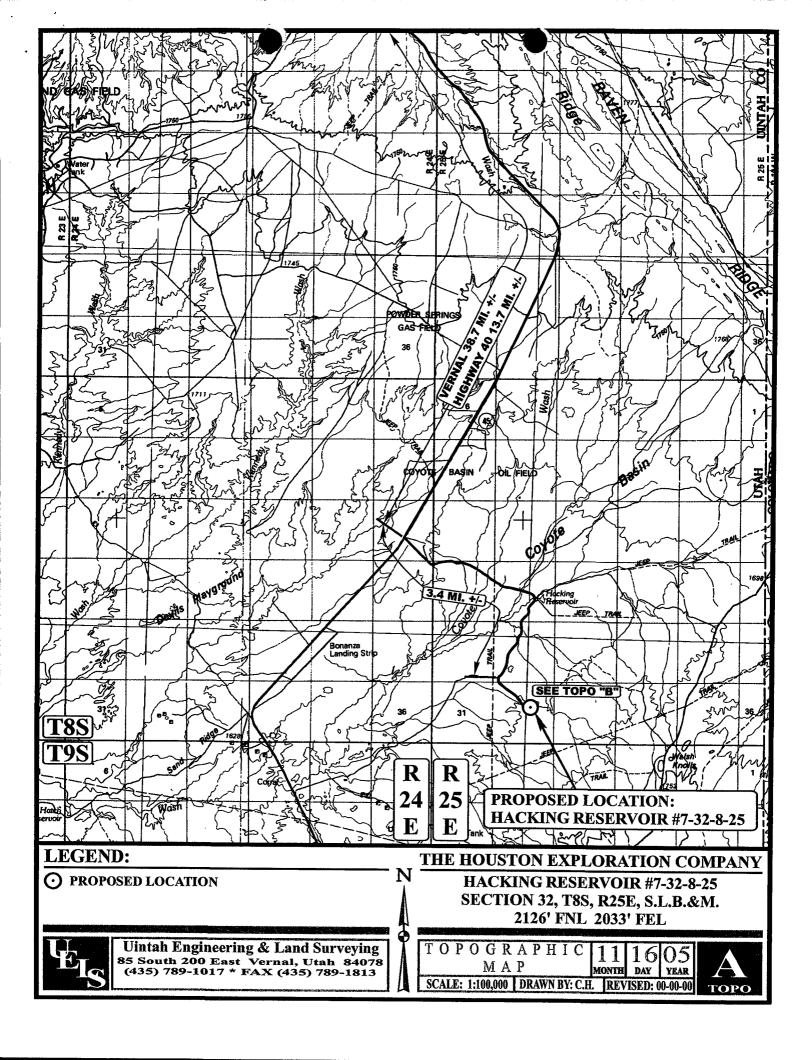
RM	

AMENDED REPORT (highlight changes)

		·				r =			
	A	PPLICAT	ION FOR I	PERMIT TO	DRILL	- 1	MINERAL LEASE NO: ML-11124	6. SURFACE: Federal	
1A. TYPE OF WO	ORK: DF	RILL 🔽 🛚 F	REENTER 🗌	DEEPEN		7	. IF INDIAN, ALLOTTEE OR	TRIBE NAME:	
B. TYPE OF WE		GAS 🗾 (THER	SIN	GLE ZONE MULTIPLE ZON	EZ	UNIT or CA AGREEMENT	NAME:	
2. NAME OF OPE		on Componi				1	. WELL NAME and NUMBER		
3. ADDRESS OF	on Exploration	on Company					Hacking Reservo		
1100 Louis	siiana, Suit 2		n _{STAT}	E TX ZIP 77	002 PHONE NUMBER: (713) 830-6800	1	o. FIELD AND POOL, OR W Undisignated	Lideat	
	F WELL (FOOTAGES	•	66010	9x	40.080398		1. QTR/QTR, SECTION, TO MERIDIAN:	MNSHIP, RANGE,	
AT SURFACE:	2,126' FNL	& 2,033' FE	L 44381	1601 -	100 100			S 25E	
AT PROPOSEI	D PRODUCING ZON	E: Same as	above	1991	109.122204	1)	37714L 32 100	5 20E	
14. DISTANCE IN	N MILES AND DIREC	CTION FROM NEAR	EST TOWN OR POS	ST OFFICE:			2. COUNTY:	13. STATE:	
	s south of V	=					Uintah	UTAH	
	O NEAREST PROPE	ERTY OR LEASE LI	NE (FEET)	16. NUMBER O	F ACRES IN LEASE:	17. NUM	BER OF ACRES ASSIGNED	TO THIS WELL:	
2,033'			******		600			40	
APPLIED FO	O NEAREST WELL R) ON THIS LEASE	(DRILLING, COMPL (FEET)	ETED, OR	19. PROPOSED		20. BON	D DESCRIPTION:		
1,200'	S (SHOW WHETHER	R DE RT GR ETC		22 ADDDOVIM	5,600 ATE DATE WORK WILL START:	1	155044		
5,438' GF		151,111, 511, 210.	•	1/15/200		1	estimated duration: 0 Days		
,				1	,,,	30 L	ays		
24.			PROPOSI	ED CASING A	ND CEMENTING PROGRAM				
SIZE OF HOLE	CASING SIZE, C	GRADE, AND WEIGI	HT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUA	ANTITY, YI	ELD, AND SLURRY WEIGHT		
11"	9 5/8	J-55	36#	2,000	Premium Lite II	250	sks 3.38 CF	11.0 PPG	
					Class "G"	329	sks 1.2 CF	15.6 PPG	
					Calcium Chloride	200	sks 1.10 CF	15.6 PPG	
7 7/8	4 1/2	N-80	11.6#	5,600	Premium Lite II	200	sks 3.3 CF	11.0 PPG	
					Class "G"	400	sks 1.56 CF	14.3 PPG	
25.				ATTA	CHMENTS			-	
VERIFY THE FOI	LLOWING ARE ATT	ACHED IN ACCORD	ANCE WITH THE U		ONSERVATION GENERAL RULES:	{	: 	HAL	
					l 1-21	`	, , , , , , , , , , , , , , , , , , , ,		
	LAT OR MAP PREPA				COMPLETE DRILLING PLAN				
EVIDENC	CE OF DIVISION OF	WATER RIGHTS A	PPROVAL FOR USE	OF WATER	FORM 5, IF OPERATOR IS PER	RSON OR (COMPANY OTHER THAN TH	HE LEASE OWNER	
NAME (PLEASE	PRINT) William	A. Byan)		TITLE Agent				
SIGNATURE	Willen	~ay			DATE 12.20.05	5			
(This space for Sta	ate use only)	U							
						R	ECEIVED		
	2,	12-14	37571	\					
API NUMBER AS	SIGNED:	0-041	1075		APPROVAL:	D	EC 2 7 2005		

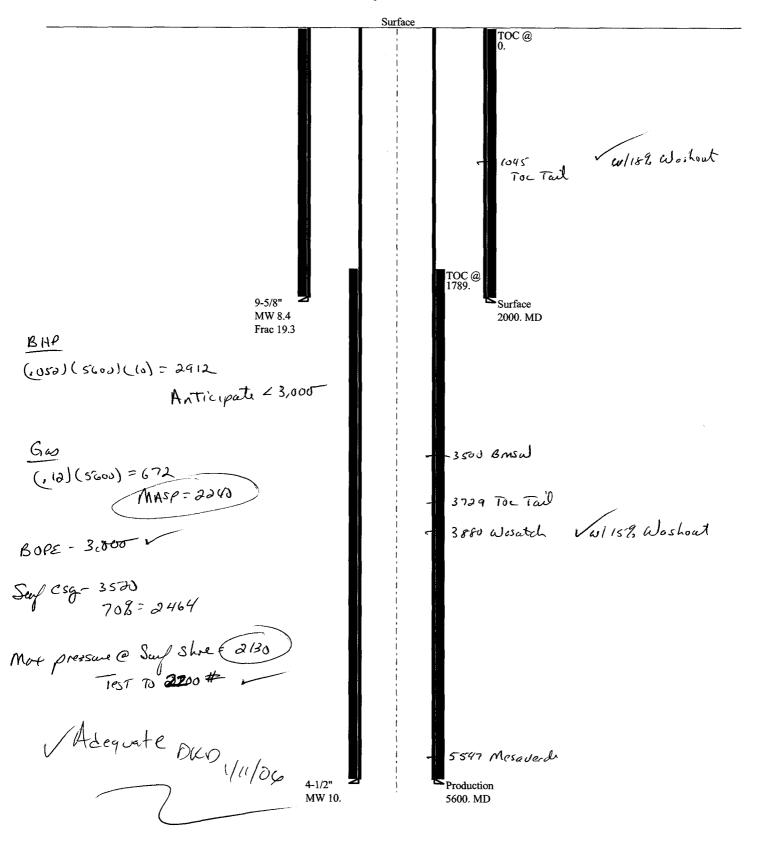
DIV. OF OIL, GAS & MINING





0 6 Houston Hacking Reserve 7-32-8-25

Casing Schematic







Well name:

01-06 Houston Hacking Reservoir 7-32-8-25

Operator:

Houston Exploration Company

String type:

Surface

Project ID:

43-047-37571

Location:

Design parameters:

Uintah County

Minimum design factors:	Environment:
Collanse:	H2S considered?

1.80 (J)

1.80 (J)

Collapse Mud weight: 8.400 ppg Design is based on evacuated pipe.

Design factor

1.125

No Surface temperature: 65 °F Bottom hole temperature: 93 °F

1.40 °F/100ft Temperature gradient: Minimum section length: 250 ft

Burst:

Design factor

1.00 Cement top: 0 ft

Burst

Max anticipated surface

No backup mud specified.

pressure: 1,760 psi Internal gradient: 0.120 psi/ft Calculated BHP 2,000 psi

Tension:

8 Round STC: 8 Round LTC:

1.60 (J) **Buttress:** Premium: 1.50 (J) Body yield: 1.50 (B)

Tension is based on buoyed weight. Neutral point: 1,751 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 5,600 ft Next mud weight: 10.000 ppg Next setting BHP: 2,909 psi 19.250 ppg Fracture mud wt: Fracture depth: 2,000 ft Injection pressure 2,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2000	9.625	36.00	J-55	LT&C	2000	2000	8.796	142.4
Run Seq	Collapse Load (psi) 873	Collapse Strength (psi) 2020	Collapse Design Factor 2.315	Burst Load (psi) 2000	Burst Strength (psi) 3520	Burst Design Factor 1.76	Tension Load (Kips) 63	Tension Strength (Kips) 453	Tension Design Factor 7.18 J

Prepared

Clinton Dworshak

Utah Div. of Oil & Mining by:

Phone: 801-538-5280 FAX: 810-359-3940

Date: January 10,2006 Salt Lake City, Utah

Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.



Well name:

01-06 Houston Hacking Reservoir 7-32-8-25

Operator:

Houston Exploration Company

String type:

Production

Project ID:

43-047-37571

Location:

Uintah County

Minimum design factors:

Environment:

Collapse

<u>Burst</u>

Mud weight: Design is based on evacuated pipe.

Design parameters:

Collapse: 10.000 ppg Design factor

1.125

1.00

H2S considered? Surface temperature: No 65 °F

Bottom hole temperature: Temperature gradient:

Cement top:

143 °F 1.40 °F/100ft

Minimum section length: 1,500 ft

1,789 ft

Burst: Design factor

Max anticipated surface

pressure: Internal gradient: Calculated BHP

No backup mud specified.

2,237 psi

0.120 psi/ft

2,909 psi

Tension:

8 Round STC: 8 Round LTC: **Buttress:**

Premium:

1.80 (J) 1.60 (J) 1.50 (J)

1.80 (J)

Body yield:

1.50 (B)

Tension is based on buoyed weight. Neutral point: 4,763 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	5600	4.5	11.60	N-80	LT&C	5600	5600	3.875	129.8
Run Seq	Collapse Load (psi)	Collapse Strength	Collapse Design	Burst Load	Burst Strength	Burst Design	Tension Load	Tension Strength	Tension Design
1	2909	(psi) 6350	Factor 2.183	(psi) 2909	(psi) 7780	Factor 2.67	(Kips) 55	(Kips) 223	Factor 4.04 J

Prepared

Clinton Dworshak

Utah Div. of Oil & Mining by:

Phone: 801-538-5280

FAX: 810-359-3940

Date: January 10,2006 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 5600 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

MEMORANDUM

DATE:

January 4, 2006

TO:

Utah Division of Oil, Gas and Mining

FROM:

Utah Geological Survey, Ground Water and Paleontology Program

SUBJECT:

UGS comments on Resource Development Coordinating Committee items

6056-6059, Short Turn-Around Items

CC:

Carolyn Wright, Resource Development Coordinating Committee

6056. Division of Oil, Gas and Mining Short Turn Around Drilling Permit Sec. 2, T8S, R25E, Uintah County

Application for Permit to Drill - proposal to drill a wildcat well, the East Coyote 3-2-8-25 on State lease ML-47953

Although there are no paleontological localities recorded in our files for this project area, there may be exposures of the Eocene Duchesne River Formation that has the potential for yielding significant vertebrate paleontological localities. The office of the State Paleontologist therefore recommends that a paleontological evaluation be conducted for this project.

6057. Division of Oil, Gas and Mining
Short Turn Around Drilling Permit
Sec. 2, T8S, R25E, Uintah County
Application for Permit to Drill - proposal to drill a wildcat well, the East Coyote 6-2-8-25
on a State lease ML-47953

Although there are no paleontological localities recorded in our files for this project area, there may be exposures of the Eocene Duchesne River Formation that has the potential for yielding significant vertebrate paleontological localities. The office of the State Paleontologist therefore recommends that a paleontological evaluation be conducted for this project.

6058. Division of Oil, Gas and Mining Short Turn Around Drilling Permit Sec. 2, T8S, R25E, Uintah County Application for Permit to Drill - proposal to drill a wildcat well, the East Coyote 8-2-8-25 on State lease ML-47953

Although there are no paleontological localities recorded in our files for this project area, there may be exposures of the Eocene Duchesne River Formation that has the potential for yielding significant vertebrate paleontological localities. The office of the State Paleontologist therefore recommends that a paleontological evaluation be conducted for this project.

6059. Division of Oil, Gas and Mining
Short Turn Around Drilling Permit
Sec. 32, T8S, R25E, Uintah County
Application for Permit to Drill - proposal to drill a wildcat well, the Hacking Reservoir 732-8-25 on State lease ML-111247

Although there are no paleontological localities recorded in our files for this project area, the Eocene Uinta Formation that is exposed here has the potential for yielding significant vertebrate paleontological localities. The office of the State Paleontologist therefore recommends that a paleontological evaluation be conducted for this project.



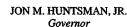
State of Utah

Department of Natural Resources

MICHAEL R. STYLER Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA
Division Director



GARY R. HERBERT Lieutenant Governor

January 12, 2006

Houston Exploration Company 1100 Louisiana, Suite 2000 Houston, TX 77002

Re: <u>Hacking Reservoir 7-32-8-25 Well, 2126' FNL, 2033' FEL, SW NE, Sec. 32,</u>

T. 8 South, R. 25 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-37571.

Sincerely,

Gil Hunt

Associate Director

pab Enclosures

cc:

Uintah County Assessor

SITLA

Bureau of Land Management, Vernal District Office

Operator:	Houston Exploration Company										
Well Name & Number	Hacking Reservoir 7-32-8-25										
API Number:	43-047-37571										
Lease:	ML-11124										
Location: SW NE	Sec. 32 T. 8 South R. 25 East										

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
- 5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

Page 2 43-047-37571 January 12, 2006

- 6. This proposed well will be located on a lease that was involved in an exchange with the Bureau of Land Management (BLM) in 1983. A court case that was settled in 1999, between the School and Institutional Trust Lands Administration (TLA) and the BLM, followed the exchange. Notification of the application to drill wells on this lease, in accordance with the court settlement, was given to the Vernal office of BLM by letter from TLA and the Division of Oil, Gas and Mining dated December 20, 2005. The operator is responsible for attaining any applicable surface rights-of-way or other permits from the BLM prior to drilling.
- 7. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.
- 8. Operator shall comply with applicable recommendations resulting from Resource Development Coordinating Committee review. Statements attached.

5. LEASE DESIGNATION AND SERIAL NUMBER:

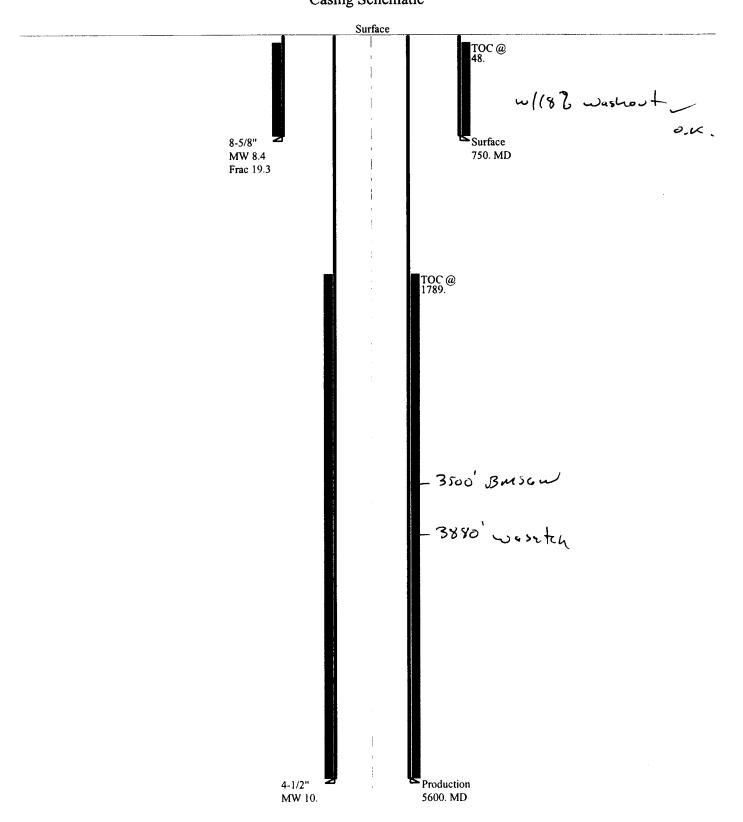
STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

	ML-11124
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT of CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL GAS WELL 🗹 OTHER	8. WELL NAME and NUMBER: Hacking Reservoir 7-32-8-25
2. NAME OF OPERATOR:	9. API NUMBER:
The Houston Exploration Company	4304737571
3. ADDRESS OF OPERATOR: 1100 Louisiana, Suite 2000 CITY Houston STATE TX ZIF 77002 PHONE NUMBER: (713) 830-6800	10. FIELD AND POOL, OR WILDCAT: Undesignated
4. LOCATION OF WELL	
FOOTAGES AT SURFACE: 2126' FNL & 2033' FEL	соинту: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 32 8S 25E	STATE: UTAH
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	
TYPE OF SUBMISSION TYPE OF ACTION	
ACIDI7E DEEPEN	REPERFORATE CURRENT FORMATION
NOTICE OF INTENT (Submit in Duplicate) ALTER CASING FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING PLUG AND ABANDON	☐ VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK	WATER DISPOSAL
(Submit Original Form Only) CHANGE WELL STATUS PRODUCTION (START/RESUME)	WATER SHUT-OFF
Date of work completion: COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	OTHER:
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION	Unick.
Operator respectfully requests changes to the surface portion of the drilling program as contoperator proposes to change the Casing size to 8 5/8", J-55, 24# with a setting depth of750' requested casing change results in a cement change as follows: Class "G", 300sx 1.2 CF 15 William A Ryan 290 S 800 E Vernal, UT 84078 435-789-0968	tained in the ten point plan. The for the surface casing. The
A .	
NAME (PLEASE PRINT) William A Ryan TITLE Agent	
SIGNATURE William & Type DATE 12/6/2006	
This space for State use only) APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING	RECEIVED

DEC 1 1 2006

01-06 Houston Hacking Reservoir 7-32-8-25rev. Casing Schematic



Well name:

01-06 Houston Hacking Reservoir 7-32-8-25rev.

Operator:

Houston Exploration Company

Surface String type:

Design parameters:

Project ID: 43-047-37571

Location:

Uintah County

Minimum design factors: **Environment:**

Collapse: Collapse

Mud weight: 8.400 ppg Design is based on evacuated pipe.

H2S considered? Design factor 1.125

1.80 (J)

1.80 (J)

1.60 (J)

Surface temperature: 65 °F 76 °F Bottom hole temperature:

1.40 °F/100ft Temperature gradient:

250 ft Minimum section length:

Burst:

1.00 Design factor

Cement top:

48 ft

No

Burst

Max anticipated surface

No backup mud specified.

pressure:

660 psi 0.120 psi/ft

Internal gradient: Calculated BHP

750 psi

8 Round STC:

8 Round LTC: **Buttress:**

Premium:

Tension:

1.50 (J) 1.50 (B) Body yield:

Tension is based on buoyed weight. 655 ft Neutral point:

Re subsequent strings:

Non-directional string.

Next setting depth: 5,600 ft 10.000 ppg Next mud weight:

Next setting BHP: Fracture mud wt: Fracture depth: Injection pressure:

2,909 psi 19.250 ppg 750 ft 750 psi

True Vert Drift Nominal End Measured Internal Segment Run Diameter Capacity Size Weight Grade **Finish** Depth Depth Length Seq (ft³) (lbs/ft) (ft) (ft) (in) (in) (ft) 268.2 24.00 J-55 ST&C 750 750 7.972 750 8.625 1 **Tension Burst Tension Tension** Collapse Collapse Burst Burst Collapse Run Design Load Strength Design Design Load Strength Load Strength Seq **Factor Factor** (psi) (psi) **Factor** (Kips) (Kips) (psi) (psi) 3.93 244 15.51 J ~ 4.186 750 2950 16 1 327 1370

Prepared

Dustin K. Doucet

Div of Oil, Gas & Minerals

Phone: 801-538-5281 FAX: 810-359-3940

Date: December 14,2006 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 750 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company:	THE HOU	STON	EXPLORA	ATION COM	PANY		
Well Name:	HACKING	GRES 7	7-32-8-25				
Api No: 43-047-3	7571	Lea	se Type:	STATE			
Section 32 Township	088 Range	25E	County_	UINTAH			
Drilling Contractor			RI	G #			
SPUDDED: Date	12/20/06						
Time							
How	DRY						
THE HOUSTON EXPLORATION COMPANY Well Name: HACKING RES 7-32-8-25 Api No: 43-047-37571 Lease Type: STATE Section 32 Township 08S Range 25E County UINTAH Drilling Contractor RIG # SPUDDED: Date							
Reported by	TREVOR M	<u>IURRA</u>	Υ				
Telephone #	(435) 790-05	558					
Date12/21/2006	Signed	(СНД				

i

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

1. DJJ 2. CDW

Change of Operator (Well Sold)				X -	Operato	r Merger								
The operator of the well(s) listed below has chan	ged, e			6/1/2007										
FROM: (Old Operator): N2525 - The Houston Exploration Company 1100 Louisiana, Suite 2000 Houston, TX 77002	N2525 - The Houston Exploration Company 1100 Louisiana, Suite 2000 Houston, TX 77002							TO: (New Operator): N6965-Forest Oil Corporation 707 17th St, Suite 3600 Denver, CO 80202						
Phone: 1-(713) 830-6800				Phone: 1 (303) 812-1755										
CA No.				Unit:										
WELL NAME	SEC	TWN	RNG	API NO	ENTITY	LEASE	WELL	WELL						
WEEE TAKE					NO	TYPE	TYPE	STATUS						
SEE ATTACHED LIST														
OPERATOR CHANGES DOCUMENT Enter date after each listed item is completed 1. (R649-8-10) Sundry or legal documentation was 2. (R649-8-10) Sundry or legal documentation was	as rec as rec	eived f eived f	rom the	NEW operator	on:	7/30/2007 7/30/2007	-							
3. The new company was checked on the Depart	ment	of Cor	mmerce	e, Division of Co	orporation	s Database o	n:	7/31/2007						
4a. Is the new operator registered in the State of U	Jtah:			Business Numb	er:	571171-014	3							
4b. If NO, the operator was contacted contacted of	n:													
5a. (R649-9-2)Waste Management Plan has been re	ceive	ed on:		IN PLACE	_									
5b. Inspections of LA PA state/fee well sites comp	lete o	n:			_									
5c. Reports current for Production/Disposition & S	Sundr	ies on:		YES	_									
6. Federal and Indian Lease Wells: The BI	.M ar	nd or th	ie BIA l	nas approved the	e merger, na	ame change,								
or operator change for all wells listed on Feder					BLM	_not yet	BIA	_						
7. Federal and Indian Units:						-								
The BLM or BIA has approved the successor	r of u	nit ope	rator fo	r wells listed on	:	n/a								
8. Federal and Indian Communization Ag														
The BLM or BIA has approved the operator						n/a	_							
9. Underground Injection Control ("UIC"			The D	ivision has appr	oved UIC F	orm 5, Trans	sfer of Au	ithority to						
Inject, for the enhanced/secondary recovery un		oject fo	or the wa	ater disposal we	ll(s) listed	on:	n/a	_						
DATA ENTRY:	-													
1. Changes entered in the Oil and Gas Database	on:			7/31/2007	_									
2. Changes have been entered on the Monthly O	perat	or Ch	ange Sp	read Sheet on:	-	7/31/2007								
3. Bond information entered in RBDMS on:				7/31/2007	-									
4. Fee/State wells attached to bond in RBDMS or				7/31/2007	_									
5. Injection Projects to new operator in RBDMS	on:	DD 0.1		n/a										
6. Receipt of Acceptance of Drilling Procedures	tor A.	PD/Ne	w on:		pending									
BOND VERIFICATION:				(02(25)										
1. Federal well(s) covered by Bond Number:				6236351 n/a	-									
2. Indian well(s) covered by Bond Number:3a. (R649-3-1) The NEW operator of any fee we	11(e) 1	ieted c	overedi		_ er	6218963								
					not yet									
3b. The FORMER operator has requested a release	se or	паоппі	y mom t	nen bond on.	not yet	_								
LEASE INTEREST OWNER NOTIFIC	CAŢ	ION:		4 4 1 - 13 - 6		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Division							
4. (R649-2-10) The FORMER operator of the fee	well	s has b	een con	tacted and infor	med by a re 8/1/2007	uer from the	Division							
of their responsibility to notify all interest owner. COMMENTS:	ers of	unis cr	lange of	1.	0/1/2007									

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES

т,	U	1	VI	ä

	DIVISION OF OIL, GAS AND M	IINING		5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached List
SUNDRY	NOTICES AND REPORT	S ON WEL	LS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill n drill horizontal k	new wells, significantly deepen existing wells below o eterals. Use APPLICATION FOR PERMIT TO DRILL	urrent bottom-hole dept	h, reenter plugged wells, or to	7. UNIT of CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL				8. WELL NAME and NUMBER:
2. NAME OF OPERATOR:				See Attached List
Forest Oil Corporation	N6965			various
3. ADDRESS OF OPERATOR:		00000	PHONE NUMBER	10. FIELD AND POOL, OR WILDCAT:
707 17th Street, #3600	P Denver, STATE CO Z	_{ip} 80202	(303) 812-1755	
FOOTAGES AT SURFACE: See at	tached list			COUNTY:
QTR/QTR, SECTION, TOWNSHIP, RAN	GE, MERIDIAN:			STATE: UTAH
11. CHECK APPI	ROPRIATE BOXES TO INDICA	TE NATURE (OF NOTICE, REPOR	RT OR OTHER DATA
TYPE OF SUBMISSION			PE OF ACTION	THE THE TENTH OF T
	ACIDIZE	DEEPEN		REPERFORATE CURRENT FORMATION
NOTICE OF INTENT (Submit in Duplicate)	ALTER CASING	FRACTURE	TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR	NEW CONST	RUCTION	TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR	CHANGE	TUBING REPAIR
	CHANGE TUBING	PLUG AND A	BANDON	VENT OR FLARE
SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BACK		WATER DISPOSAL
(Submit Original Form Only)	CHANGE WELL STATUS	PRODUCTIO	N (START/RESUME)	WATER SHUT-OFF
Date of work completion:	COMMINGLE PRODUCING FORMATIONS	RECLAMATI	ON OF WELL SITE	✓ OTHER: Change of Operator
	CONVERT WELL TYPE	RECOMPLET	E - DIFFERENT FORMATION	
12. DESCRIBE PROPOSED OR CO	DMPLETED OPERATIONS. Clearly show all	pertinent details inc	uding dates, depths, volume	is, etc. N2525
N-2525) to Forest Oil Corp	change the operator for the atta coration (N-6965). Forest mergene contract operated wells will contract operated well and the contract oper	ed with The Ho	ouston Exploration C	ouston Exploration Company ompany, a copy of the merger
	new operator, accepts all applic ucted on the lease or portion of			and restrictions concerning
Forest Oil Corporation me	ets the State of Utah bonding re	equirements ur	der Safeco bond #6	218963.
Please send all future corr	respondence to Forest Oil Corpo	oration at the a	bove listed address.	
Forest Oil Corporation, 70	7 17th Street, Suite #3600, Den	ver, CO 80202	?	
10/\1				_
40 Ilm			7 - 5	5-07
J. ¢ . Ridens, Senior Vice I	President - Western Region		D	ate
NAME (PLEASE PRINT) Joanne C.	Hresko	TiTLE	Vice President &	General Mgr Northern Division
SIGNATURE Jann	e C. Thishes	DATE	7-5.07	
(This space for State use only)		. 1	1/2 in 100	status ou
APPROVE	7131107	No we	115 IN AT D	Status or RECFIVED
Car Denie	Russell	of Mer	USTATUS	RECEIVED
(5/2000) Division of Oil, C	The and Mining (See Ins	tructions on Reverse Sid	te) TIME	1111 2 11 2007
Earlene Russell, I	Engineering Technician			JUL 3 U 2007

well name	sec	twp	rng	api	entity	lease	well	stat	flag	unit	qtr_qtr	l num	op no
FEDERAL 28-01	28	080S	_	4304730098			GW				SESE		N2525
CONOCO STATE 32-2	32	080S	ļ	4304730100	10096			S			NENE	ML-11124	N2525
ROCK HOUSE 11-31	31	100S	230E	4304733312				P			NESW	UTU-76281	N2525
BONANZA 4B-12	12	090S	230E	4304733806	14593	Federal	D	PA			NWNW	UTU-74426	N2525
WALKER HOLLOW 13-31	31	060S	230E	4304735039		Federal	GW	LA			SESW	UTU-76280	N2525
ROCK HOUSE 6D-32	32	100S	230E	4304735409	14293	State	GW	S			SENW	ML-47063	N2525
BONANZA 2B-16	16	090S	240E	4304735694	14186	State	D	PA			NWNE	ML-46526	N2525
ROCK HOUSE 2D-36	36	100S	220E	4304735759	14357	State	GW	P			NWNE	ML-47061	N2525
ROCK HOUSE 2D-32	32	100S	230E	4304735760	14317	State	GW	S			NWNE	ML-47063	N2525
ROCK HOUSE 10D-32	32	100S	230E	4304735761	14318	State	GW	S			NWSE	ML-47063	N2525
ROCK HOUSE 12D-32	32	100S	230E	4304735762	14294	State	GW	P			NWSW	ML-47063	N2525
ROCK HOUSE 11-36	36	100S	220E	4304735900	14478	State	GW	P			NESW	ML-46907	N2525
ROCK HOUSE 4-36	36	100S	220E	4304735901	14449	State	GW	S			NWNW	MI_42061	N2525
BONANZA 12A-22	22	090S	240E	4304735922	14520	Federal	D	PA			NWSW	UTU-78118	N2525
BONANZA 14-16	16	090S	240E	4304735941	14521	State	D	PA			SESW	ML-46526	N2525
ROCK HOUSE 11-2	02	110S	230E	4304736153	14695	State	GW	P	С		NESW	ML-47078	N2525
ROCK HOUSE 7-32-10-23	32	100S	230E	4304736306	14766	State	GW	S			SWNE	ML-47063	N2525
ROCK HOUSE 3-32-10-23	32	100S	230E	4304736307	14781	State	GW	P			NENW	ML-47063	N2525
ROCK HOUSE 5-32-10-23	32	100S	230E	4304736410	14727	State	GW	S			SWNW	ML-47063	N2525
GUSHER 6-2	02	060S	190E	4304736963		State	OW	LA			SENW	ML-49144	N2525
N HORSESHOE 3-16-6-21	16	060S	210E	4304737391	15716	State	GW	DRL	C		NENW	ML-49317	N2525
N HORSESHOE 12-7-6-22	07	060S	220E	4304737392		State	GW	LA			NWSW	ML-47969	N2525
N HORSESHOE 16-9-6-22	09	060S	220E	4304737393		State	GW	LA			SESE	ML-47969	N2525
N HORSESHOE 14-10-6-22	10	060S	220E	4304737394		State	GW	LA			SESW	ML-47969	N2525
N HORSESHOE 2-15-6-22	15	060S	220E	4304737395		State	GW	LA			NWNE	ML-47969	N2525
N HORSESHOE 4-15-6-22	15	060S	220E	4304737396		State	GW	LA			NWNW	ML-47969	N2525
N WALKER HOLLOW 12-32-6-23	32	060S	230E	4304737397		State	GW	LA			NWSW	ML-47777	N2525
N WALKER HOLLOW 16-32-6-23	32	060S	230E	4304737398		State	GW	LA			SESE	ML-47777	N2525
N WALKER HOLLOW 2-32-6-23	32	060S	230E	4304737399	15741	State	GW	DRL	C		NWNE	ML-47777	N2525
N WALKER HOLLOW 10-32-6-23	32	060S	230E	4304737400		State	GW	LA			NWSE	ML-47777	N2525
N WALKER HOLLOW 8-32-6-23	32	060S	230E	4304737401		State	GW	LA			SENE	ML-47777	N2525
N WALKER HOLLOW 11-36-6-23	36	060S	230E	4304737462		State	GW	LA			NESW	ML-47970	N2525
N WALKER HOLLOW 13-36-6-23	36	060S	230E	4304737463		State	GW	LA			SWSW	ML-47970	N2525
N WALKER HOLLOW 15-36-6-23	36	060S	230E	4304737464		State	GW	LA			SWSE	ML-47970	N2525
N WALKER HOLLOW 14-32-6-23	32	060S	230E	4304737478		State	GW	LA			SESW	ML-47777	N2525
HACKING RES 11-32-8-25	32	080S	250E	4304737479		State	GW	LA			NESW	ML-11124	N2525
HACKING RES 3-32-8-25	32	080S	250E	4304737480		State	GW	LA			NENW	ML-11124	N2525
HACKING RES 5-32-8-25	32	080S	250E	4304737481		State	GW	LA			SWNW	ML-11124	N2525
HACKING RES 15-32-8-25	32	080S	250E	4304737482		State	GW	LA			SWSE	ML-11124	N2525
HACKING RES 9-32-8-25	32	080S	250E	4304737483		State	GW	LA			NESE	ML-11124	N2525
HACKING RESERVOIR 7-32-8-25	32	080S	250E	4304737571	15885	State	GW	DRL	C		SWNE	ML-11124	N2525

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

CONFIDENTI	AMENDED REPORT (highlight changes) 5. LEASE DESIGNATION AND SERI	FORM
AAIII IRBIIII	5. LEASE DESIGNATION AND SERI	AL NUMBER:

			DIVIO		i OIL,	CAO	AIND		•				ML-11	124		
WEL	L COM	IPLE	TION	OR F	RECC	MPL	ETIC	ON RI	EPOR	TAN	LOG	6.	IF INDIAN,	ALLOTTEE C	R TRIE	BE NAME
1a. TYPE OF WELL	:		WELL [j ;	GAS C		DRY	<u>/</u>	ОТН	ER		7.	UNIT or CA	AGREEMEN	IT NAM	E
b. TYPE OF WORI	K: HORIZ. [LATS. [DEEP-]	RE- ENTRY		DIFF. RESVR.		отн	ER		8.	8. WELL NAME and NUMBER: Hacking Reservoir 7-32-8-25			
2. NAME OF OPER. Forest Oil		ation								<u> </u>		9.	43047			
3. ADDRESS OF OF		auon								PHONE	NUMBER:	10		POOL, OR V	MLDCA	AT
707 17th St	reet, #3		OITY DE	enver		STATE	CO	ZIP 80 2	202	(30	3) 812-175			ignated		
4. LOCATION OF W AT SURFACE:	•	•	2033' I	FEL									MERIDIAN WNE			SHIP, RANGE,
AT TOP PRODU	CING INTER	RVAL REP	ORTED BE	LOW:												
AT TOTAL DEPT	TH: 212 (6' FNL	& 203	3' FEL									COUNTY Uintah		1	3. STATE UTAH
14. DATE SPUDDEI 12/13/2006			T.D. REAG /2007	CHED:	16. DAT 2/1	E COMPL B/2007		,	ABANDONI	• ✓	READY TO PROD	DUCE _		VATIONS (DE 155 KB	, RKB,	RT, GL):
18. TOTAL DEPTH:	MD 6,	•		19. PLUG	BACK T.E	D.: MD TVD			20. IF N	MULTIPLE CO	OMPLETIONS, HO	W MANY?	* 21. DEP PL	TH BRIDGE UG SET:	MD TVD	
22. TYPE ELECTRIC	C AND OTH	ER MECH	ANICAL LO	GS RUN (Submit co	y of each	1)			23.			. [7]	.=.		
Triple Comb	00									WAS DST	L CORED? RUN? NAL SURVEY?	N	> <u>~</u>	res res res	(Subn	nit analysis) nit report) nit copy)
24. CASING AND L	INER RECO	RD (Repo	rt all string	s set in w	ell)					<u> </u>						
HOLE SIZE	SIZE/GI	RADE	WEIGH'	T (#/ft.)	TOP	MD)	вотто	OM (MD)		EMENTER CEMENT TYPE & NO. OF SACKS			SLURRY VOLUME (BBL)		OP **	AMOUNT PULLED
18	14	A252	36.		C			0			5 yds			Surf (
11	8-5/8	J55	2	4	C)	7	80		410 "A"			86		Surf CIR	
							 				-					
							<u> </u>									
					-							i				
25. TUBING RECOF	RD															
SIZE	DEPTH	SET (MD) PAC	(ER SET (I	MD)	SIZE		DEPTH	SET (MD)	PACKE	R SET (MD)	SIZE	D	EPTH SET (M	MD)	PACKER SET (MD)
26. PRODUCING IN	TERVALS									27. PERFO	RATION RECORD					
FORMATION	NAME	то	P (MD)	BOTTO	OM (MD)	TOP	(TVD)	вотто	M (TVD)	INTERVA	L (Top/Bot - MD)	SIZE	NO. HOL	_	ERFOR	ATION STATUS
(A)			-					<u> </u>	_			_	-	Open	<u> </u>	Squeezed
(B)				ļ				<u> </u>				-	+	Open		Squeezed
(C)		-		<u> </u>				 				-		Open	<u> </u>	Squeezed
(D)			AFAIT OO!					<u> </u>				<u> </u>		Open	Щ	Squeezed
28. ACID, FRACTUR	NTERVAL	MENT, CE	MENT SQU	EEZE, E I		*****			AMC	, N INT AND T	YPE OF MATERIA					
DEFINI	INTERVAL								Airc	JOHN AND T	TI E OF MIXTERIA					
			+													
														[20	WELL	CTATUS.
29. ENCLOSED ATT	ACHMENT	5 :								_		_		30	, vycli	L STATUS:
	RICAL/MECI			CEMENT	VERIFIC#	TION	\equiv	GEOLOGI CORE AN	C REPORT	=	DST REPORT	DIRE	CTIONAL S	URVEY		PA
												F	ECT	INGE)	

(CONTINUED ON BACK)

AUG 1 3 2007

31. INITIAL PRO	DUCTION			3.74		NTI	ERVAL A (As sho	wn in item #26)				
DATE FIRST PRO	DDUCED:	TEST DA	ATE:			HOURS TESTED		TEST PRODUCTIO RATES: →	N OIL-BBL:	GAS MCF:	WATER - BBI	L: PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PR	RESS.	API GRAVI	TY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTIC RATES: →	ON OIL BBL:	GAS - MCF:	WATER - BBI	L: INTERVAL STATUS
				•		INTE	ERVAL B (As sho	wn in item #26)	, · · · · · · · · · · · · · · · · · · ·			
DATE FIRST PRO	DDUCED:	TEST DA	ATE:	.		HOURS TESTED):	TEST PRODUCTIO	N OIL - BBL:	GAS - MCF:	WATER - BBI	L: PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PR	RESS.	API GRAVI	TY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	ON OIL - BBL:	GAS - MCF:	WATER - BBI	L: INTERVAL STATUS
						INTE	ERVAL C (As sho	wn in item #26)	•			
DATE FIRST PRO	DDUCED:	TEST DA	ATE:			HOURS TESTED	ŗ	TEST PRODUCTIO RATES: →	N OIL - BBL:	GAS MCF:	WATER - BBI	L: PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PR	RESS.	API GRAVI	TY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	ON OIL - BBL:	GAS - MCF:	WATER - BBI	L: INTERVAL STATUS
	<u> </u>			<u> </u>	•	INTE	RVAL D (As sho	wn in item #26)				
DATE FIRST PRO	DDUCED:	TEST DA	ATE:			HOURS TESTED	r	TEST PRODUCTIO RATES: →	N OIL – BBL:	GAS MCF:	WATER – BB	L: PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PR	ESS.	API GRAVI	TY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTIC RATES: →	ON OIL - BBL:	GAS - MCF:	WATER - BB	L: INTERVAL STATUS
32. DISPOSITIO										() MADVEDO:		
33. SUMMARY C Show all importar tested, cushion us	t zones of poros	sity and cont	ents then	eof: Cored in	ntervals and re	and all drill-stem coveries.	tests, including de	epth interval	SA. FORMATION	(Log) MARKERS:		
Formatio	n	Top (MD)		itom		Descript	ions, Contents, etc).		Name		Top (Measured Depth)
		1,355	1,4	102 L	ost f	ull returns			Green Riv Uteland Bi Wasatch Mesa Verd	utte Limestoi	ne	200 3,236 3,326 4,773
35. ADDITIONAL												VEL 0000:
Plug #1 85 tagged 289	sx "G" ne 98'; Plug #	eat, 98 (#3 65 s)	cuft, 4 < "G",	1685'-44 74.75 c	185' ; cuft,	across Me 896'-696',	sa Verde, ta tagged 685	agged @ 442 ''; Plug #4 65	22'; Plug #2 sx "G", 74.	80 sx "G", 9 75 cuft, 96' t	2 cuft, 307 o surface.	5'-2898',
36. I hereby cert	fy that the fore	going and a	attached	information	n is cor	mplete and corre	ct as determined	from all available re	cords.	····		

This report must be submitted within 30 days on

NAME (PLEASE PRINT) Tami Hofmann

completing or plugging a new well

drilling horizontal laterals from an existing well bore

• recompleting to a different producing formation

• reentering a previously plugged and abandoned well

DATE

8/9/2007

significantly deepening an existing well bore below the previous bottom-hole depth

Regulatory Specialist

drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to:

SIGNATURE

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

CONFIDENTIAL

FORM 9

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

5. LEASE DESIGNATION AND SERIAL NUMBER: DIVISION OF OIL, GAS AND MINING ML-11124 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: SUNDRY NOTICES AND REPORTS ON WELLS 7. UNIT or CA AGREEMENT NAME: Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. 8. WELL NAME and NUMBER: 1. TYPE OF WELL OTHER Dry Hole OIL WELL GAS WELL Hacking Reservoir 7-32-8-25 9 API NUMBER 2 NAME OF OPERATOR 4304737571 Forest Oil Corporation 3. ADDRESS OF OPERATOR: PHONE NUMBER: 10. FIELD AND POOL, OR WILDCAT: STATE CO 26 80202 Wildcat (303) 812-1755 CITY Denver 707 17th St, #3600 4. LOCATION OF WELL COUNTY: Uintah FOOTAGES AT SURFACE: 2126' FNL & 2033' FEL 25E QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 88 STATE: UTAH CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 11. TYPE OF ACTION TYPE OF SUBMISSION REPERFORATE CURRENT FORMATION DEEPEN ACIDIZE NOTICE OF INTENT FRACTURE TREAT SIDETRACK TO REPAIR WELL ALTER CASING (Submit in Duplicate) TEMPORARILY ABANDON NEW CONSTRUCTION Approximate date work will start: CASING REPAIR TUBING REPAIR OPERATOR CHANGE CHANGE TO PREVIOUS PLANS VENT OR FLARE PLUG AND ABANDON CHANGE TUBING SUBSEQUENT REPORT WATER DISPOSAL PLUG BACK CHANGE WELL NAME (Submit Original Form Only) WATER SHUT-OFF PRODUCTION (START/RESUME) CHANGE WELL STATUS Date of work completion: RECLAMATION OF WELL SITE COMMINGLE PRODUCING FORMATIONS OTHER: 2/18/2007 **RECOMPLETE - DIFFERENT FORMATION** CONVERT WELL TYPE 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. This well was drilled as a dry hole to 6608 TD on 2/14/2007. Verbal approval to plug by Dustin Doucet on 2/15/2007. 2/16/07 Plug #1-4685'-4485' across Mesa Verde, 85 sx "G" neat, 98 cuft, tagged @ 4422' 2/17/07 Plug #2-3075'-2898', 80 sx "G", 92 cuft, tagged @ 2898' Plug #3-896'-696', 65 sx "G", 74.75 cuft, tagged @ 685' 2/18/07 Plug #4-96'-surface, 65 sx "G", 74.75 cuft. Rig was released. RECEIVED AUG 1 3 2007 DIV. OF OIL, GAS & MINING

(This space for State use only)

NAME (PLEASE PRINT)

SIGNATURE 1

Tami Hofmann

mari

Regulatory Specialist

8/9/2007

DATE



Contractor: Patterson Drilling

Original KB Elevation (ft): 5,455.00

Field Name: API: 43047375710000

Target Depth (ftKB):

Target Formation:

www.peloton.com

The Houston Exploration Company

Daily Drilling Report

Report Date: 2/28/2007 AFE#: 05-6558

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Surface Legal Location: SW NE S32 T8S R25E

Rig Name/No: 51 Lease: ML-11124 County: Uintah

State: Utah **Depth End (ftKB):** 6,608.0

Depth End (TVD) (ftKB): Depth Progress (ft): 0.00 Average ROP (ft/hr):

CASING PROGRAM Dens Fluid (lb/gal) (TVD) (ftKB) Wt (lbs/ft) Grade 36.75 A-... 24.00 J-55 OD (in) 14 Run Date 12/20/2006 60 8 5/8 780 1/4/2007

Drilling Hours (hrs) Report Number: 49				verage ROP (ays From Sp		18.38				
2/18/2007 06:00 - 2/ Operations at Report Time Rig Costs Remarks	28/2007	06:00			24hi	Forecast				
DAILY CONTACTS										
Trevor Murray	ikan ekani		Job Contact				Rig Sı	upervisor	Position	
COSTS	lo	tive Cost	Total AFE Amou	unt ITota	al AFE Sup	Workin	g Interest (%)	Daily Mud Cost	Cumulative	Mud Cost
Daily Cost Total	Cumulai	805,941	626,0	I .	II AFE Sup	VVOIKIII	100.00	Daily Widd Cost	Turpo	To a second
MUD PROPERTIES Mud Type MW (lb/g		FV (s/qt)	PV Override (cp)	YP (lbf/100ft²)	рН	Gel(10sec) (l	lbf/ Gel(10min) (lb	f/ WL (mL/30min)	HTHP (mL/30min)	LCM
Filter Cake (/32") Pf (mL	Pm (m	O (%)	W (%)	Sd (%)	Chi (mg/L)	MBT (ib/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf)
Avg Background Gas (%)		Āvç	Connection Gas (%	6)	Avg	Drill Gas (%)		Avg Trip Ga	s (%)	
PUMP OPERATION	•									
No.	Mak	()		Model		Stroke (in)	Liner Size (in)	P (max) (psl)	Vol/Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
PUMP CHECKS	Mak	(e		Model		Pres (psi)	Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
BIT INFORMATION							140			
				Total depth drilled by bit	Avg ROP					Total hours drilled by bit (hrs)
Size (in)	Make	Air	Туре	720.00		Depth In (ftKB) 60.0		Dull Out -	LADC Codes	19.00
7.825 Hycalog	IC INFO	PDC		6,684.00	0 59.2	780.0	O 6,608.0			113.00
DAILY DRILL STRIP Bit Run Size (in)	lake	Model	Dep	oth In (ftKB)	Depth Out (ftKE	Avg ROP (Nozzles (/32")	IADC Bit Dull	IADC Co	des
Depth End (ftKB)	SPP (psi)	We	ight on Bit (1000lbf)	RPM (rpm)	Drill	ing Torque	PU HL (1000lbf)	SO HL (100	Olbf) Rot HL	(1000lbf)
DAILY HYDRAULIC Max Open Hole AV (ft/min)		ax Casing AV (ft/mi	n) Bit Je	t Velocity (ft/s)	Bit I	Pressure Drop (psi	i) Bit Hydr	aulic Power (hp)	HP/Area (hp/in²)	<u> </u>
BOTTOM HOLE AS	SEMBI	Y DETAIL								
Jts		Description		OD (in)		ID (in)	Top Thread	Len (h) C	um Len (ft)
MUD USAGE										
			Descri	ption	71 88 6 6	<u> </u>		Consume		On Lac
CONSUMABLES			Supply Item Desc	ription				Consumed	Cum	On Loc
SAFETY CHECKS -	JSA	Туре		Description	on			Comment		
Survey Data										
MD (ftKB) 5,47	2.00	Incl (°) 4.20	Azm (°) 130.20	TVD (ftKB)		VS (ft)	NS (ft)	EV	V (ft)	DLS (*/100ft)
5,72 6,01		3.80 3.80	128.40 131.30							
6,20 6,52	6.00	3.30 4.00	120.00							
5,02			<u> </u>		l.					

Page 1/1



Report Date: 2/18/2007 AFE#: 05-6558 **Cost Type:**

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name: API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00 **Target Formation:**

Drilling Hours (hrs): Report Number: 48.0 Rig Name/No: 51 Lease: ML-11124

County: Uintah
State: Utah
Depth End (ftKB): 6,608.0
Depth End (TVD) (ftKB): Depth Progress (ft): 0.00 Average ROP (ft/hr):

Days From Spud (days): 8.38

CASING	PROGRA	NM	erikh idžaličaka	114559105591274	Walter III - Marca	
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

2/17/200	7 06:0	00 - 2/	18/200	7 06:00				-				Me					
Operations a	at Repo	rt Time			<u> </u>						Forecast			Sant Wester St. A. T. T. S.		and the second of the second o	
Remarks					· · · · · · · ·												
DAILY C	ONT	ACTS										761					
Trevor M		(Sept. 1)		J. S.		Job C	ontact		10.000				Ria S	upervisor	Po	sition	
TIME LO																	
From 06:00		3. (hrs) 2.00	Code		Descrip		LAVE	D DOWN	51 IT			200	Description OP				
00.00		2.00	30	Pipe	/Botton	n Hole		D DOWN	3131	3 DF							
08:00	-	1.00	08		mbly ing In		TRIP	7 STDS D	P IN	THE HO	LE TO 307	5'					
09:00		0.75		Othe			PUMI	PED SECO	DND	PLUG F/	3075' T/ 28		'-80 sx-16.5bb	ls (92cu/ftCL	ASS	G W/ 2% SAL	T-WT=15.8
09:45		0.25	09	Tripp	ing Ou	ıt		=1.15 cu/fl 1 W/ 5 STI		-			1 t = 200 - 1 = 1 = 1 = 1				
10:00		4.78	07	1	dition a		CIRC	- WAITING	G ON	CEMEN	T PLUG T	O S	ET				
14:46		0.50		Tripp	ing In)P + 7	7 FT IN O	N SINGLE	- T	AGGED PLUG	@ 2898'			
15:16 15:46		0.50 2.25			icate R Down [ICE RIG	60 17	TS NP T/	3075'						
,0.40		2.20		Pipe	/Bottor	n Hole	J.,,,		55 61								
18:01	-	0.50	08		embly oing In		TIH V	W 9 STDS	& SI	NGLE OF	DP T/ 896	3'					
18:31		1.50		Othe				IN/OUT F				SX-	74.75 cu/ft CL	ASS G+3% S	ALT(7.25bbls)-W	Г=15.8ррд
20:01	<u> </u>	4.00	07	1	dition a		I			-		G (ON CEMENT			40.4	
00:01		1.50	1	Tripp	ing In							6' -	TAG CEMENT	@ 685'			
01:31		0.50	36	Pipe	Down [/Bottor embly	Orill n Hole	LAY	DOWN 8 S	STDS	DP T/ 96	; '						
02:01		0.50		Rig I Dow	Jp & To n	ear					OWN MAC	HIN	₹E				
02:31 03:01	-	0.50	1	Tripp	oing In			V/ 1 STD C P TOP PLU			URFACE"	-65	5 sx-74.75 cu/fi	CLASS G+3	% SA	LT(7.25bbls	•
						5.:0)-WT	=15.8ppg -	YLD:	=1.15cu/s	k - MIX W	ATE	ER = 5 gal/sk ON CEMENT -				ID & CLEAN
03:31		2.50	36	Pipe	Down I /Bottor embly	n Hole	PITS	JOVVIV 3 J	1130	IF IIN V D	OOR - WA		ON CEMENT *	START RIG	31110	DOWN -DOW	IF & OLLAN
COSTS												d)					
Daily Cost 1	Total 1,180)	Cumul	ative Cost 805,94	1	Total AF	E Amour 626,00	I .	Total Al	FE Sup	Wo	king	Interest (%) 100.00	Daily Mud Cost		Cumulative	Mud Cost
MUD PR							314 2 40										
Mud Type		MW (lb/		FV (s/qt)	2010116 VI	PV Overrid	e (cp)	'P (lbf/100ft²)	p⊦	1	Gel(10se	c) (Ik	of/ Gel(10min) (Ib	ff WL (mL/30m	in) l	HTHP (mL/30min)	LCM
Filter Cake	(/32")	Pf (mL	Pm (m	0 (%)		W (%)	5	id (%)	CF	ni (mg/L)	MBT (lb/b	bl)	Sol (%)	Calcium (mg	/L)	Mud Lost (Hole)	Mud Lost (Surf)
Avg Backgr	ound G	as (%)	<u> </u>	1	Avg	Connection	Gas (%)			Avg	Drill Gas (%)			Avg Tri	Gas (%)	
				e Nilani											A.77		
PUMP O	PER	ATION										1				Vol/Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
No.		<u> </u>	M	ake	unita farridga	3 (2000) 4 (20		Model	18 18		Stroke (in)	188	Liner Size (in)	P (max) (psi)		VOI/SIK (DDI/SIK)	(DDII3IK)
PUMP C	HEC	KS															
No.		Per filos	М	ake	Suny E			Model			Pres (psi)		Slow Spd No	Strokes (spm)	<u> 10 10 8</u>	Eff (%)	Q (gpm)
BIT INFO	ORMA	ATION									THIS I						
								Total der drilled by	y bit	Avg ROP							Total hours drilled by bit
Size (in)	11 Ai	<u> </u>	Make		Air	Туре		(ft) 720		(all) (ft/hr) 37.9	Depth In (ftk 6	B) 0.0	Depth Out (ftKB) 780.0	Dull Out	DI 4	IADC Codes	(hrs) 19.00
7.8	25 Hy	/calog	Legistic Co. 1	- 4-10-	PDC		TELLION	6,684	1.00	59.2	78	0.0	6,608.0				113.00
	ORILL Size (ir		NG INF	ORMAT	ON Model		Deni	h In (ftKB)	Den	oth Out (ftKB) Avg ROP	(Nozzies (/32")	IADC Bit Dull		IADC Co	odes
								1		,····-							
Depth End	(ftKB)		SPP (psi)		Wei	ght on Bit (1000lbf)	RPM (rpm)		Drill	ng Torque		PU HL (1000lbf)	SO HL	(1000ik	of) Rot HL	_ (1000lbf)
L						-											



Report Date: 2/17/2007 AFE#: 05-6558 **Cost Type:**

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00 Target Formation:

Drilling Hours (hrs): Report Number: 47.0 Rig Name/No: 51 Lease: ML-11124

Lease: ML-11124
County: Uintah
State: Utah
Depth End (ftKB): 6,608.0
Depth End (TVD) (ftKB):
Depth Progress (ft): 0.00
Average ROP (ft/hr):

Days From Spud (days): 7.38

S. 10. 100 C. 100 C. 100 C.	PROGR		Market and Sandra	Cat Danie	Service of Paristic Communication	
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (ib/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Operations at	06:00 - 2/ Report Time BOTTOM		.06:00			24	nr Forecast				
DAILY CO	ONTACTS										
Trevor Mu	ırray	tweet floor		Job	Contact				upervisor	Position	
TIME LO	- 475.15J										
From: 06:00	HR\$. (hrs)	Code	Desc Other	ription	WAITING ON	Z 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		Description OP	Samuel Comment		
08:30	0.75		Tripping I	n	TIH W/ BHA &	8 STDS DP					
09:15	3.75	1	Other		WAITING ON I		RU LAYDOWI	N MACHINE			
13:00	2.75	36	Lay Down Pipe/Botto Assembly	m Hole	LAYING DOWI	N DP & BHA					
15:45 18:00	2.25 3.50		Tripping li Condition Circulate	and/or				TOM PLUG 200 REBUILDING V	D' ACROSS MES VOLUME -	A VERDE F/	4685' T/ 4485'
21:30	1.50	39	Other		PUMP BOTTO STDS DP	M PLUG - 85	sx "G" NEAT @	① 15.8ppg - 1.15	5yld - 5.0 gal/sk r	nix - 98cu/ft -	PULLED 5
23:00	6.00	07	Condition Circulate		CIRC & COND	ITION - WAI	TING ON CEM	IENT			
05:00	0.50		Tripping I					M PLUG - TAGO	GED PLUG @ 44	22'	
05:30	0.50	36	Lay Down Pipe/Botto Assembly	om Hole	LAYING DOWI	N 51 JTS DP	10 3074'		See Brand		
COSTS											
Daily Cost To 33	otal ,042	Cumula	tive Cost 744,761	Total Af	E Amount 626,000	Total AFE Sup	Workin	ng Interest (%) 100.00	Daily Mud Cost	Cumulat	tive Mud Cost
	PERTIES									TUTUS (-1 PO-1	VI 014
Mud Type	MW (lb/		FV (s/qt)	PV Overrio	ie (cp) YP (lbf/100ft²)) pH	Gei(10sec) (iot/ Gel(10min) (ib	of/ WL (mL/30min)	HTHP (mL/30mir	
Filter Cake (/	32") Pf (mL	Pm (m	O (%)	W (%)	Sd (%)	Chł (mg/L)	MBT (lb/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole).	Mud Lost (Surf)
Avg Backgrou	und Gas (%) PERATION	s	Av	g Connection	n Gas (%)		g Drill Gas (%)		Avg Trip Ga	s (%)	
No		Ma	ke .		Model		Stroke (in)	Liner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk	Vol/Stk OR (bbl/stk)
PUMP CH No.	IECKS	Me	lke		Model		Prės (psi)	Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
RIT INFO	RMATION										
BIT IN O	N.II.A.II.O.II				Total de drilled b						Total hours drilled by bit
Size (in)		Make		Туре	(ft)	(all) (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)	Dull Out	IADC Codes	(hrs)
-	1 Air 5 Hycalog		Air PDC		6,684	0.00 37.9 4.00 59.2	l .				113.00
	1.00	NG INF	ORMATION								
Bit Run S	ize (in)	lake	Model DSX		Depth In (ftKB) 780.0	Depth Out (ftK 6,608.0		Nozzles (/32")	IADC Bit Dull	IADC	Codes
Depth End (fi		Hycalog SPP (psi)		eight on Bit (illing Torque	PU HL (1000lbf)	SO HL (100	Olbf) Rot	HL (1000lbf)
	/DRAULIC		ax Casing AV (ft/n	nin)	Bit Jet Velocity (ft/s)) Bit	Pressure Drop (ps	i) Bit Hydi	raulic Power (hp)	HP/Area (hp/	in²)
	HOLE AS		Y DETAIL				107/57		100	3	Cum Len (ft)
Jts		Iten	n Description		OD (in)		ID (in)	Top Thread	Len (•	Jun Edit (II)
MUD USA	AGE				Description				Consumed		On Loc
CONSUM	IABLES			Supply Ite	em Description				Consumed	Co	um On Loc
SAFETY Date	CHECKS	- JSA	Туре		Desc	ription			· Comment		
www.i	peloton.co	om.				Page	1/2			Report Pri	nted: 7/20/200



Report Date: 2/16/2007 AFE#: 05-6558

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation: Drilling Hours (hrs): Report Number: 46.0 Rig Name/No: 51 Lease: ML-11124 County: Uintah State: Utah

Depth End (ftKB): 6,608.0 Depth End (TVD) (ftKB): Depth Progress (ft): 0.00 Average ROP (ft/hr): Days From Spud (days): 6.38

CASING	PROGR	AM				Maria
		Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	Ā	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	
	1	l				

2/4 5/2007 0	éinn n	46/000	, ne-no	jati yji ili	er : 1777 0.8350.00	nyinan Bir					gerianalismentek			
2/15/2007 0 Operations at Re	eport Time	10/2007	UO:UU	and Som	apatronoffic			24	hr Forecast	<u> </u>		oga, ett 1975 (1990)	<u> </u>	e i i Mara asá-ili i di e
WOO														
Remarks														
DAILY CON	ITACTS				Job Co	nlact					V m		Position	
Trevor Murr	ay	radi. Nati. K	5-515.00.00 (S-25.0 <u>)</u>		300 00	illact			S 44 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Rig Su	pervisor		
TIME LOG														
From 1	1RS. (hrs)	Code	Short	Descriptio	on	CHODI	TDIDDE	D 16 CTDC	- 1440'	2/5K D	Description OP	BACK TO BO	TTOM TO CHEC	CK EOB EILI
06:00	2.00			tion and		NO F	ILL				& HOLE FOR		TOW TO CHEC	SKTOKTILL
07:00			Circula	ate mu	d		CE RIG	- CIRC. & C			A HOLE FOR			
09:00 09:30	0.50 4.00		Condit	ate Rig tion and ate mu	d/or			ION MUD F	OR LOG	S - RAI	SE VISC TO 5	5		
13:30	5.50	09		ng Out		тоон	FOR LOG	S - DROF	PED TO	TCO - L	/D MOTOR &	IBS"s	,	
19:00	7.00		Wireli	ne Logs	s						TING - RAN T	RIPLE COMB	Ō	
02:00	4.00	39	Other			WAITIN	IG ON OI	RDERS FR	OM HOL	JSTON	aguidi perwan puntur			
COSTS								ALIANE C		Isac	-11/8/	Doily 84 J 2	10 - 1-7	ve Mud Cost
Daily Cost Total 60,9		Cumula	711,719		Total AFE	Amount 326,000	I	tal AFE Sup		_	nterest (%) 100.00	Daily Mud Cost	Cumulati	ve Muu Cost
MUD PROP Mud Type Inhibited	MW (lb/		FV (s/qt) 46	P\	V Override	(cp) YP	(lbf/100ft²) 14.000	рН 9.0		10sec) (lbf/ 4.000	i Gel(10min) (lbf 11.000	/ WL (mL/30min) 6.0	HTHP (mL/30min) LCM
Water Base Filter Cake (/32	1	. Pm (m		w	/ (%)	Sd		Chl (mg/L)		(lb/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole)	. Mud Lost (Surf)
Avg Background	d Gas (%)	1	0.0	Avg Co	91.0 onnection G	as (%)	0.2	500	g Drill Gas ((%)	9.0	Avg Trip G	as (%)	
	r Bracillo is Table 15													
PUMP OPE	RATION	IS			i i vystacu.			- 10 TA					<u>Orial Parties er sch</u> A uf Deutscher Breiter B	Vol/Stk OR
No.		Ma	ake				Model	200	Stroke (in	i) l	Liner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	(bbl/stk)
PUMP CHE	CKS	Ma	ake			1	Model		Pres (psi	<u> </u>	Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
BIT INFORI	MATION										En la partir de la company			
Size (in)		Make			Туре		Total dep drilled by (ft)	bit Avg ROP (all) (ft/hr)	Depth Ir		Depth Out (ftKB)	Dull Out	IADC Codes	Total hours drilled by bit (hrs)
7 925	Air Hycalog		1	ir DC			720. 6,684.	i i	1	60.0 780.0	780.0 6,608.0			19.00 113.00
11111111111111111111111111111				5.00401			0,004.	00	<u>- </u>	700.0	0,000.0			
	e (in)	NG INF ^{Make} Hycalog	٨	ON Model DSX510	6		n (ftKB) 780.0	Depth Out (ft) 6,608.		ROP (N	Nozzies (/32")	IADC Bit Dull	iADC (Codes
Depth End (ftKE	3)	SPP (psi)			nt on Bit (10	00lbf) F	RPM (rpm)		rilling Torque	9	PU HL (1000lbf)	SO HL (10	000lbf) Rot F	HL (1000lbf)
DAILY HYD	RAULIC	S	lax Casing AV	/ (fVmin)		Bit Jet Ve	locity (ft/s)	Bi	t Pressure D)rop (psi)	Bit Hydr	aulic Power (hp)	HP/Area (hp/i	n²)
BOTTOM H	JOLE AS	CEMP	V DETAIL		<u> </u>						The spring of the second			
Jts	IOLL AC		n Description				OD (in)		ID (in)		Top Thread	Lén	(ft)	Cum Len (ft)
MUD USAC	3E					Descriptio	n				and the second s	Consum	ed	On Loc
CONSUMA	BLES			8	Supply Item	Descripti	on	<u> </u>				Consumed	Cu	ım On Loc
SAFETY C	HECKS		Туре				Descri	ntion	1			Comment		
			::::::::::::::::::::::::::::::::::::::		300 300 LA	2009 (2019)	23041	777						
Survey Da	(ftKB)		Incl (*)		Azm (°)		TVD (fiki	3)	VS	(ft)	NS (ft)		EW (ft)	DLS (*/100ft)
		72.00 22.00	4.2 3.8		130.20 128.40	1								
	6,0	15.00 06.00	3.8 3.3	30	131.30 120.00)								
MADA DO	eloton.co							Pag	e 1/2				Report Prin	nted: 7/20/200



Report Date: 2/15/2007 AFE#: 05-6558

FE#: 05-6558 Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name: API: 43047375710000

API: 43047375710000 Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:

Drilling Hours (hrs): 18.50 Report Number: 45.0 Rig Name/No: 51 Lease: ML-11124 County: Uintah State: Utah

Depth End (ftKB): 6,608.0 Depth End (TVD) (ftKB): Depth Progress (ft): 591.0

Depth Progress (ft): 591.00 Average ROP (ft/hr): 31.9 Days From Spud (days): 5.38

CASING	PROGR	M				
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	Α	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

014 43000====	NO.CO -	4 2 / 0 / 0 -	00.00	onina. N	(The police care	2016328N 132	disklaye yanak di	n ngalatani	(*************************************		(QACKA	2011 P. SANSKO II V. SANSKO II V				
2/14/2007 (Operations at R Drld to 6608	Report Time					<u> </u>		***	24hr I	Forecast						
Remarks NOTE: TD	THE HAC	KING F	RESEVIO	OR 7-3	32-8-25 A	T 01:5	7AM 02/1	5/200	7 - TD DE	EPTH =660	08'				·	
DAILY CON					1363384										154	
2 E 15a					Job (Contact					WC St	Dia Con		Position		
Trevor Murr	ray		######################################		vantore mos Orectvi i ore			art ar				Rig Sup	ervisor		SEALE,	
From	HRS. (hrs)	Code		Descri	ption							Description OP				
06:00	2.50		Drilli	•		-SPM	!= 146 -GF	PM=4:	32 - PP=19	900psi		1.2ft/hr -WOB=				
08:30 09:00	0.50 3.50	l	Devi		Survey	DRLC	3 NEW FO	ORM		/ 6191' -96		TION - AZIMUT 7.4ft/hr -WOB=				
12:30	0.50			icate F	Rig	SERV	VICE RIG									
13:00	3.25		Drilli			-SPM	1=140 -GF	M=4	14 -PP=18	50psi	_	9.2ft/hr -WOB=1				
16:15 16:45	0.50 9.25		Devi		Survey	DRLC	3 NEW FO	ORM		/ 6608'=32		TION - AZIMUT 34.8 ft/hr -WOB				
02:00	2.00	07		dition a	and/or nud					-	E F	OR SHORT TRI	P			
04:00	2.00	33	Shoi	t Trip	In	SHO	RT TRIP	40 ST	DS TO 27	68'	25025-1		7 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1			
COSTS Daily Cost Tota 66,8		Cumula	ative Cost 650,75	6	Total AF	E Amour 626,00		Total A	NFE Sup	Woi	_	nterest (%) 1	Daily Mud Cost	Cun	nulative	Mud Cost
					TERT HERE						225 X 23					
MUD PROP Mud Type	MW (lb/	gai)	FV (s/qt)	<u> </u>	PV Overrid		YP (lbf/100ft²)					Gel(10min) (lbf/		HTHP (mL/3	Omin) L	СМ
Inhibited Water Base Filter Cake (/32	е	.70 Tem (m	0 (%)	2	14.0 W (%)		12.000 Sd (%)		9.0	4.0 MBT (lb/b		10.000 Sol (%)	5.0 Calcium (mg/L)	Mud Lost (H	ole) iN	flud Lost (Surf)
Avg Backgroun		, ,,, (,,,,,,	0.0		91.0 Connection)	0.3		500	Orill Gas (%)		9.0	Avg Trip Ga	s (%)		
	a ji Pata kili min	11.00	glar soni (ii)	SHEAT		Mischae		201803			S. K.		Zerekara tengo			
PUMP OPE	ERATION	S		14658						.				100 (100 (100 (100 (100 (100 (100 (100		Vol/Stk OR
No.		Ma	ike				Model			Stroke (in)	ı	iner Size (in)	P (max) (psi)	Vol/Stk (bb	l/stk)	(bbl/stk)
PUMP CHE	ECKS													Eff (%)		Q (gpm)
No.		Ma	ike			:335 <u>, 32* (2)</u>	Model	<u> </u>		Pres (psi)	1 0 0 0 0 0	Slow Spd No	Strokes (spm)	_u (20)		er (gpm)
BIT INFOR	RMATION						Total d		T							Total hours
Size (in)	Air	Make		Air	Туре		drilled b		Avg ROP (all) (ft/hr)	Depth in (ftK	B) 0.0	Depth Out (ftKB)	Dull Out -	IADC Co	des	drilled by bit (hrs)
	Hycalog			PDC			6,68		59.2		0.0	6,608.0 -				113.00
DAILY DRI	ILL STRII	NG INF	ORMAT	ON					Marida.							
	. ,	_{lake} Iycalog		Model DSX	516	Dept	th In (ftKB) 780.0	De	oth Out (ftKB) 6,608.0	Avg ROP 51.6	٠ ١	lozzles (/32")	IADC Bit Dull		DC Coo	
Depth End (ftK 6,60		SPP (psi) 1	46.0	We	ight on Bit (* 14	1000lbf)	RPM (rpm)	111	Drillin	ng Torque		PU HL (1000lbf)	SO HL (100	Olbf)	Rot HL	(1000lbf)
DAILY HYI Max Open Hole			lax Casing .	AV (ft/m	in)	Bit Jet	Velocity (ft/s)	Bit Pi	ressure Drop	(psi)	Bit Hydrau	lic Power (hp)	НР/Агеа	(hp/in²)	
воттом і	UOLE AS	CEMPI	V DET/	VII	1000000											
Jts	I IOLL AC		n Description				OD (in)	20 C	I) (in)	8 1 N	Top Thread	Len (h)	Cı	um Len (ft)
MUD USA	GE										1					5-1-2
						Descrip	tion	1000			fjær.s		Consume	V 22 - 20 0 20		On Loc
CONSUMA	ABLES				Supply Ite	m Descri	iption						Consumed		Cum	On Loc
SAFETY C	CHECKS	- JSA									100 211540					
Date			Туре				Desc	xiption					Comment		nealte	
															 .	



Report Date: 2/14/2007 AFE#: 05-6558

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name: API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation: Drilling Hours (hrs): 22.00 Report Number: 44.0

Rig Name/No: 51 Lease: ML-11124 County: Uintah State: Utah

Depth End (ftKB): 6,017.0
Depth End (TVD) (ftKB):

Depth Progress (ft): 1,075.00 Average ROP (ft/hr): 48.9 Days From Spud (days): 4.38

CASING	PROGRA	AM				
	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	Α	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

2/13/2007 0 Operations at Ro Drilling @ 60 Remarks	eport Time		7 06:00			2	4hr Foreca	st				
DAILY CON	ITACTS											
				Job Conta	act			102/30015	Di- C		Position	
Trevor Murra	ay								Rig S	upervisor		
TIME LOG	HRS. (hrs)	Cod	e Descrip	tion				i da a da	Description OP			
06:00	4.00	02	Drilling	DI -S	PM=141 -GP				6.8ft/hr -WOI	B=10/18K -RPM	=35/50t+66m=	101/116
10:00 10:30	0.50 6.50		Lubricate R Drilling	DI	ERVICE RIG RLG NEW FO SPM=141 -GP				.1ft/hr -WOE	3=10/18K -RPM=	=35/45t+66m=	101/111
17:00 17:30	0.50 5.50	I	Deviation S Drilling	DF	RLG NEW FO	ORM F/ 555	2' T/ 580	6' -254'@ 4		: 130.2 DEGREE DB=8/10k -RPM:		
23:00	1.00	13	Deviation S		PM=141 -GP URVEY @ 57				AZIMUTH =	128.4 DEGREE	S TRUE NOR	TH
00:00	6.00		Drilling	DI		ORM F 5806	' T/ 601	7' = 211'@3		OB=8/12K -RPM		
COSTS Daily Cost Total		Cumu	lative Cost	Total AFE An	mount	Total AFE Sup		Working Int		Daily Mud Cost	Cumula	tive Mud Cost
53,3	16	e ar vaçilir.	583,910	626	6,000	Section Page	e ranga	1	00.00			
MUD PROP Mud Type Inhibited	MW (lb/		FV (s/qt) 41	PV Override (cp 14.0	5) YP (lbf/100ft²) 11.000	I.		el(10sec) (lbf/ 3.000	. Gel(10min) (lb 10.000	of/ WL (mL/30min) 6.1	HTHP (mL/30mi	n) LCM
Water Base Filter Cake (/32'		Pm (m.	O (%) 0.0	W (%) 92.0	Sd (%) 0.3	Chl (mg/L)		BT (lb/bbl)	Sol (%) 8.0	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf)
Avg Background	d Gas (%)		Avg	Connection Gas	s (%)	<u>'</u>	Avg Drill G	ıs (%)		Avg Trip Ga	as (%)	
PUMP OPE	RATION		ake		Model		Stroke	(in) Lii	ner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk	Vol/Stk OR (bbl/stk)
		A Street Faller										
PUMP CHE	:UNS	M	lake		Model		Pres (osi)	Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
BIT INFORI	MATION				Total de							Total hours
Size (in)	Air	Make	Air	Туре		(all) (ft/h	r) Dept	60.0	Pepth Out (ftKB) 780.0	: I	IADC Codes	drilled by b (hrs)
7.825	Hycalog		PDC		6,684	4.00 59	.2	780.0	6,608.0)	 tanka ilimba ili	113.0
Bit Run Size	e (in)	NG INF lake lycalog	FORMATION Model DSX5		Depth In (ftKB) 780.0	Depth Out (1 6,608		/g ROP (No 51.6	zzies (/32")	IADC Bit Dull	IADC	Codes
Depth End (ftKE 6,017	3)	SPP (psi)	<u> </u>	ght on Bit (1000	lbf) RPM (rpm)		Drilling Tor		PU HL (1000lbf)) SO HL (100	00lbf) Rot	HL (1000lbf)
DAILY HYD	PRAULIC		Max Casing AV (ft/mir) Bit	t Jet Velocity (ft/s)	Bit Pressur	e Drop (psi)	Bit Hyd	raulic Power (hp)	HP/Area (hp.	(in²)
			LY DETAIL									
Jts	TOLE AS		m Description		OD (in)		ID (in)		Top Thread	Len	(ft)	Cum Len (ft)
MUD USAG	3E			Des	scription					Consume	ad	On Loc
CONSUMA	BLES								1			um On Loc
				Supply Item De	escription		Selpe of			Consumed	o er e e e e e e e e e e e e e e e e e e	an OALOG
SAFETY CI Date	HECKS	- JSA	Туре	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Desc	ription				Comment		
Survey Dat MD	(ftKB)	31.00	fncl (*) 2.00	Azm (°) 127.00	TVD (fi	IKB)	V	S (ft)	NS (fl): 	W (ft)	DLS (%100ft)
	4,09	93.00 20.00	2.00 2.00 2.00	127.20 127.20								
MONON DO	eloton.co	ım				Pa	ge 1/2				Report Pri	nted: 7/20/20



Report Date: 2/13/2007 AFE#: 05-6558

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:

Drilling Hours (hrs): 22.00 Report Number: 43.0

Rig Name/No: 51 Lease: ML-11124 County: Uintah State: Utah

Depth End (ftKB): 4,942.0 Depth End (TVD) (ftKB):

Depth Progress (ft): 1,102.00 Average ROP (ft/hr): 50.1 Days From Spud (days): 3.38

CASING	PROGRA	AM .				
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

2/12/2007 0 Operations at Ro Drilling @ 4: Remarks	eport Time		7 06:00			24h	r Forecast					
	GERS F	PICKE	TOP OF MES	A VERDE AT	Г 4685'		ve come		Page at the			
DAILY CON	ITACTS			Job Conta	ıct						Position	
Trevor Murr	ay							arrogo par	Rig St	upervisor	NESSES (1908) 255 N. 1954	
TIME LOG												
From 1 06:00	HRS. (hrs) 3.00	02	Drilling	DF	RLG NEW FO PM=160 -GP	ORM F/ 3840'- 'M=473 -PP=1	T/4043'-203 950psi		Pescription OP 7ft/hr -WOB	=6/12K -RP M =30	0/40t+75m=105	/115
09:00 09:30	0.50 4.00		Lubricate I Drilling	DF				'@32. <u></u>	5ft/hr -WOB	=6/12K -RPM=30)/40t+75m=105	/115
13:30 14:00	0.50	1	Deviation Drilling	Survey St	JRVEY @409		REES INCL			JYH = 127.2 DEG 3=6/12K -RPM=3		
				-s	PM=160 -GP	M=473 -PP=1	950psi	_		JYH = 127.2 DEG		
23:00 00:00	1.00 6.00		Deviation Drilling	DF	RLG NEW FO		T/4942'-257			DB= 8/12K -RPM		
COSTS Daily Cost Total		Cumu	ulative Cost	Total AFE Am	nount [Total AFE Sup	Woo	king Inte	erest (%)	Daily Mud Cost	Cumulative	Mud Cost
48,8			530,594		5,000			10	00.00		Transferric Reference of the	
MUD PROF Mud Type Inhibited	MW (ib		FV (s/qt) 45	PV Override (cp) YP (lbf/100ft²) 13.000	I.	Gel(10se 4.0		Gel(10min) (lb 9.000	f/ WL (mL/30min) 6.5	HTHP (mL/30min)	LCM
Water Base Filter Cake (/32		. Pm (m.	O (%)	W (%)	Sd (%)	Chi (mg/L)	MBT (lb/b	bl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf) .
Avg Background	d Gas (%)	<u> </u>	Avg	95.0 Connection Gas	0.2	500 Avg	Drill Gas (%)		5.5	Avg Trip Gas	i (%)	
PUMP OPE	RATION		Aake		Model		Stroke (in)	Line	er Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
					(ilode)		Guene (iii)			A CONTRACTOR OF THE CONTRACTOR		
No.	CKS	<u> </u>	//ake		Model		Pres (psi)	S	Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
BIT INFOR	MATION				Total de	enth I	¥11	- 1				Total hours
Size (in)	Air	Make	Air	Туре	drilled b	y bit Avg ROP	Depth in (ftk	B) D∈ 0.0	epth Out (ftKB) 780.0	Dull Out	IADC Codes	drilled by b (hrs)
	Hycalog		PDC	and the sector realist	6,684		H	0.0	6,608.0	1		113.0
Bit Run Size	e (in)	NG INI ^{Make} Hycalo	FORMATION Model DSX		Depth In (ftKB) 780.0	Depth Out (ftKl			zies (/32")	IADC Bit Dull	IADC Co	odes
Depth End (ftKI	В)	SPP (psi	·	eight on Bit (1000)		Dri	lling Torque	P	PU HL (1000lbf)	SO HL (100	Dibf) Rot HL	(1000lbf)
DAILY HYD Max Open Hole	DRAULIC		Max Casing AV (ft/m	in) Bit	Jet Velocity (ft/s)) Bit	Pressure Drop	(psi)	Bit Hyd	raulic Power (hp)	HP/Area (hp/in²)
BOTTOM F	HOLE AS		BLY DETAIL em Description		OD (in)		ID (in)		Top Thread	Len (I	y	cum Len (ft)
MUD USAC	GE									Consumed		On Loc
				Des Des	scription					Consumed		JII 600 111 1
CONSUMA	ABLES			Supply Item De	escription					Consumed	Cun	ı On Loc
SAFETY C	HECKS	- JSA	Туре		Desc	nollqire				Comment		
Survey Da) (ftKB)		fncl (°)	Azm (°)	TVD (ft	IKB)	VS (ft)		NS (fi	EV	V (ft)	DLS (°/100ft)
	3,5	30.00 31.00 31.00	2.10 2.00 2.00	127.40 127.20 127.00								
www.ne	eloton.c	om				Page	1/2				Report Print	ted: 7/20/2



Report Date: 2/12/2007 AFE#: 05-6558 **Cost Type:**

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name: API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:

Drilling Hours (hrs): 22.00 Report Number: 42.0

Rig Name/No: 51 Lease: ML-11124 County: Uintah State: Utah

Depth End (ftKB): 3,840.0 Depth End (TVD) (ftKB): Depth Progress (ft): 1,150.00 Average ROP (ft/hr): 52.3

Days From Spud (days): 2.38

CASING	PROGR	AM	alifornia necesia			
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	À	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

2/11/2007 Operations a Drilling @	t Report	Time		06:00						24hr	Forecast						
Remarks NOTE: T	OP OF	WAS	SATCH	PICKE	TAA C	2940'								RESULTABLE DE LA COMPANION DE	\$52-11-C-1		. 11 8 21 1
DAILY C	ONTAC	TS													na-Ma-		
Trevor M	urray	<u> </u>	<u>r anhaitter</u>			JOD C	ontact				5.60 t 3.45 (14.1 <u>6.2.</u>		Rig Sup	ervisor	Position	pytoja veni kira.	ek Mirecvero i b <u>a</u> loje.
TIME LO																	
From 06:00	HRS.	hrs) 3.50	Code 02	Drilli	Descrip ng	otion	-RPM=	=45/55t+5	56m=	101/111-9	73020'-330'@ SP M= 120-GP)50.7 M=3	55-PP=1145	psi	**************************************		of pinish a same y
12:30 13:00		0.50 0.50		Dev	ation S ng	Survey	DRLG	NEW FO	ORM F	-/3020' T	REES INCLIN / 3084'-64'@ 20-GPM=355	128ft	/hr-WOB=6/	TH = 131.2 DE 10K	GREES	TRUE N	ORTH
13:30		0.50			icate F	Rig		ICE RIG									
14:00		5.50	02	Drilli	ng		-RPM=	=45/55t+	56m=	101/111-9	/3340'-320'@ SPM=120-GP	PM=3	55-PP=1145	psi			
19:30 20:00		0.50 7.00		Dev Drilli	ation S	Survey					REES INCLIN /'-3661'@321			TH = 127.4 DE	GREES	TRUE N	ORTH
20.00		7.00	02	Disi	ng		-RPM=	=45/55t+8	80m=	125/135-9	SPM=169-GP	PM=5	11-PP=1720	psi	,		
03:00 03:30		0.50 2.50		Dev Drilli	ation S	Survey	SURV	EY @ 3:	5811 :	= 2.0 DE(GREES INCL 7 3840' =179	INAT	ION - AZIMU	JTH= 127.2 DE B = 6/12K - RI	GREES	TRUE N	ORTH -SPM=162
05.50		2.50	UZ		#1 9 			I=480 -PF			7 3040 -173				111 40(-7	011. 120	01111102
costs																	
Daily Cost T 23	otal 3,163		Cumula	tive Cost 481,74	6		E Amount 626,00		Total Al	FE Sup	Workin	•	est (%) 0.00	Daily Mud Cost		Cumulative I	Mud Cost
MUD PR															BOY GALL TOOK		
Mud Type Inhibited Water Ba		N (lb/g 8.	_{9al)} 60	FV (s/qt) 3:		PV Override 12.0		6.000 6.000) pŀ	9.0	Gel(10sec) (2.000		Gel(10min) (lbf/. 4.000	WL (mL/30min) 40.0		L/30min) Li	
Filter Cake (/32") Pf	(mL	Pm (m	O (%)		W (%) 98.0		1 (%) 0.2	Ct	nl (mg/L) 500	MBT (lb/bbl)	,	Sol (%) 2.0	Calcium (mg/L)	Mud Lost	(Hole) M	ud Lost (Surf)
Avg Backgro	ound Gas	(%)		l	Avg	Connection	Gas (%)			Avg	Drill Gas (%)			Avg Trip Ga	s (%)	····	
DUMP O	DEDA	101															
PUMP O	PERA	JUN	S Ma					Model			Stroke (in)	Liner	Size (in)	P (max) (psi)	Vol/Stk	(bbl/stk)	Vol/Stk OR (bbl/stk)
No.	. 1 1000000		INIC	NO.		221 121/01/07/11/07		MOGOI			oudite (iii)	<u> </u>				()	
PUMP CI	HECK	3	Ма	ke		7 13 13 13 13 13 13 13 1		Model	<u> </u>		Pres (psi)			Strokes (spm)	Eff (%)	Q (gpm)
DIT INEC	DMAT	ION									<u> </u>		No				
BIT INFO	/KIVIA I	ION						Total de		Avg ROP		T					Total hours drilled by bit
Size (in)	1 Air		Make		Air	Туре		(ft)		(all) (ft/hr) 37.9	Depth In (ftKB) 60.0		oth Out (ftKB) 780.0 -	Dull Out	IADC	Codes	(hrs) 19.00
	5 Hyc	alog			PDC			6,684		59.2	780.0	- 1	6,608.0				113.00
DAILY D	RILL S	TRIN	IG INF	ORMAT					2								
Bit Run 1	Size (in) 7.82	- 1	_{ake} lycalog		Model DSX5			1n (ftKB) 780.0	<u> </u>	6,608.0	51.6		les (/32")	IADC Bit Dull	-	IADC Cod	
Depth End (fikB) 840	s	PP (psi) 1	88.0	Wei	ght on Bit (1 10	000lbf)	RPM (rpm) 1	162	Drilli	ng Torque	PL	J HL (1000lbf)	SO HL (100	(TOIDT)	Rot HL (TOUGIDF)
DAILY H	YDRAI	ILIC	s														
Max Open H				ax Casing	AV (ft/mir	n)	Bit Jet V	elocity (ft/s))	Bit P	ressure Drop (ps	i)	Bit Hydrai	ulic Power (hp)	HP/Ar	ea (hp/in²)	
BOTTON	I HOLI	E AS	SEMBL	Y DETA	AIL .												
Jts				n Descripti			, r te (8. js)	OD (in)	falikat	C245774691	D (in)	HH1173	Top Thread	Len	ft)	Сп	m Len (ft)
MUD US	AGE					457											
1110000	AUL						Description	on	Citysu.	XXXX.		Mali		Consume	dərəyəri iləri	C	n Loc
CONSU	MARIE	:e								0.00		1,000					
3011301	*IADE		1,300		iii	Supply Iter	n Descrip	tion		TALL TROUBLES		NEE TE		Consumed		Cum C	On Loc
GAFFT	OUE	V6	IC A		7445												
SAFETY Date		<u> </u>	JOA	Туре				Desc	ription	**************************************				Comment			
							<u>.</u>										



Report Date: 2/11/2007 AFE#: 05-6558

Report Printed: 7/20/2007

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00 **Target Formation:**

Drilling Hours (hrs): 19.50 Report Number: 41.0

Rig Name/No: 51 Lease: ML-11124

County: Uintah
State: Utah
Depth End (ftKB): 2,690.0
Depth End (TVD) (ftKB):
Depth Progress (ft): 1,415.00 Average ROP (ft/hr): 72.6 Days From Spud (days): 1.38

	PROGRA					
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	Α	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

2/10/2007		11/2007 (6:00				lo 4	he Caraa	-+				
perations at F Drilling @ 2		4 fph					24	hr Foreca	sı				
temarks NOTE: TOI	OF GAF	RDEN GL	JLTCH @ 204	0' STAR	T MUD	UP @ 2500)'	2					
DAILY COI	NTACTS								327.00				
revor Mur	ray		gri nigramas.	Job C	ontact					Rig Su	1,000	Position	
TIME LOG									10.0				
From 06:00	HRS. (hrs) 1.50	Code 02	Descrip Drilling	otion	DRLG	NEW FOR	M F/ 1275			Description OP 3.3ft/hr - WOB	=8/14K - RPM=5	0t+56m=106 -	SPM=120
					-GPM	=355 - PP=7	750psi						
07:30 08:00	0.50 1.00	l	Deviation S Drilling	urvey							TH = 125.2 DEG B=8/14K - RPM=		
	4.50	00				355 - PP=7		OWER	DUMD D	ATE DUMDE	D 80bbl PILLW/	25 lb/bbi I CM	DECAINED
09:00	1.50	39	Other			RNS - LOS			PUMP N	ATE - POWE	D OUDDI PILLVVI	23 ID/DDI LOW	REGAINED
10:30	2.00	02	Drilling			NEW FOR 120 - GPM=			l' - 112' @	56ft/hr-WOB	=10/14K - RPM=	50/56t+56m=1	06/112 -
12:30	0.50	10	Lubricate F	Rig	SERV	ICE RIG	-						
13:00	1.00	02	Drilling			NEW FOR =120 -GPM=)' - 66' @ (66ft/hr - WOB=	10/14K -RPM=5	0/55t+56m=10	6/111
14:00	0.50	13	Deviation S	Survey	SURV	/EY @ 1463	' = 2.2 DE	GREES			TH = 83 DEGRE		
14:30	3.00	02	Drilling			ÑEW FOR =120 -GPM=			9' -191'@	63.6ft/hr - WO	B=8/12 -RPM=5	0/55t+56m=10	6/111
17:30	0.50		Deviation S	Survey	SURV	/EY @ 1685	' = 1.8 DE	GREES	INCLINA	TION - AZIMU	TH = 96.4 DEG	REES TRUE N	ORTH
18:00	3.00	02	Drilling			6 NEW FOR =355 -PP=8		' T/ 202	6'= 257' @	9 85.6ft/hr - W	OB= 8/12K - RP	M=55t+56m=11	11 -SPM=120
21:00	0.50	1	Deviation S	Survey	SURV	/EY @ 1945	= 1.8 DE	GREES	INCLINA [®]	TION - AZIMU	TH = 122.6 DEG	REES TRUE N	IORTH
21:30	5.50	02	Drilling			6 NEW FOR 1=355 - PP=		1/ 253	9' - 513' @	2) 93.3ft/hr - VV	OB=6/10K - RPN	/I=6U(+56M=11	6 - SPM=120
03:00	0.50		Deviation S	Survey							TH = 122.6 DEC		
03:30	2.50	02	Drilling			=355 -PP=1		1/ 268	U - 151 @	y 60.4 fV/II - VV	OB= 6/12K - RP	M-29(+20111-1	15-3FW-120
COSTS		HADE					64						
Daily Cost Tot	al 625	Cumulati	ve Cost 458,583	Total AF	E Amoun 626,00	I .	al AFE Sup		1 -	nterest (%) 100.00	Daily Mud Cost	Cumulativ	e Mud Cost
MUD PRO													
Mud Type Inhibited	MW (ib/		V (s/qt) 27	PV Override		P (lbf/100ft²) 1.000	рH 9.0		el(10sec) (lbf/ 1.000	/ Gel(10min) (lbf/ 1,000	WL (mL/30min) 0.0	HTHP (mL/30min)	LCM
Water Bas	е						Chi (mg/L)	14	BT (lb/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf)
Filter Cake (/3		. Pm (m C		W (%) 100.	0	id (%)	500			0.1			Mad Lost (odit)
Avg Backgrou	nd Gas (%)		Avg	Connection	Gas (%)		A	vg Drill Ga	ıs (%)		Avg Trip Gas	(%)	
PUMP OP	ERATION	IS											
No.		Mak	9		Hulley	Model		Stroke	(in) L	Liner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
1 2 2088 - 2		531 I. 1077			ją saukių autoji			TO SEED OF		200000000000000000000000000000000000000			
PUMP CH	ECKS	Mak				Model		Pres (nsi).	Slow Spd	Strokes (spm)	Eff (%)	Q (gpm)
No.		Mak	9., 1g. 1811 (J. 124 G. 124 S.)			Wode				No			
BIT INFOR	RMATION						- 1						Total hours
						Total depth drilled by b (ft)			s is (BVD)	Depth Out (ftKB)	Dull Out	IADC Codes	drilled by bit (hrs)
Size (in)	Air	Make	Air	Туре		720.0	0 37.	9	60.0	780.0		-	19.00
7.825	Hycalog		PDC	gyesyddin d	pa, 1, 2, 12, 17	6,684.0	0 59	2	780.0	6,608.0		■ Maraila da la da da Maraila	113.00
		NG INFO	RMATION Model		Dept	h in (ftKB)	Depth Out (fl	KB) A	vg ROP (N	Vozzles (/32")	IADC Bit Dull	IADC C	odes
1		Hycalog	DSX			780.0	6,608		51.6				
Depth End (ftl 2,69	· · · · · · · · · · · · · · · · · · ·	SPP (psi) 12	0.0	ight on Bit (* 12	1000lbf)	RPM (rpm) 115		rilling Tor	que	PU HL (1000lbf)	SO HL (1000	(Rot H	L (1000lbf)
DAILY HY								Sign at					
Max Open Ho	le AV (ft/min)) Ma:	x Casing AV (ft/mi	n)	Bit Jet	Velocity (ft/s)	E	it Pressur	e Drop (psi)	Bit Hydra	aulic Power (hp)	HP/Area (hp/in	<i>,</i>
воттом	HOLE AS							- K // -		TAN TR. 300	122		Cum Len (ft)
Jts		ltem.	Description			OD (in)		ID (in)	2220303	Top Thread	Len (f	9	oun con (ii)
													



Report Date: 2/10/2007 AFE#: 05-6558 Cost Type:

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000 **Surface Legal Location:** SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:
Drilling Hours (hrs): 9.0

Drilling Hours (hrs): 9.00 Report Number: 40.0 Rig Name/No: 51 Lease: ML-11124

County: Uintah State: Utah

Depth End (ftKB): 1,275.0 Depth End (TVD) (ftKB): Depth Progress (ft): 495.00 Average ROP (ft/hr): 55.0 Days From Spud (days): 0.38

Strain State of	AND SERVICE CONTRACT	AM	Control Spring Control (1971)	Set Depth	A STATE OF THE STA	Dens
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	(TVD) (fiKB)	Run Date	Fluid (lb/gal
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

2/9/2007 06 Operations at Re)/2007 06	:00			24hr Fore	cast				
Drilling @ 12		5 fph		warran -		241111016					
Remarks NOTE: FOU	IND OUT	FROM R	OCKY MT.	DRILLING	THAT SURF WA	AS DRILLED TO	800'+/- CSG	SET @ 780' +/	-		
DAILY CON											
		der constant		Job C	ontact			Rig Supe		osition	
Trevor Murr	ay							Trig Cupe	,, v .1001		
From I	IRS. (hrs)	Code	Descr	iption				Description OP			
06:00	1.00		Drill Ceme Float Equi	pment	DRLG CEMENT		SEE COE	ITED BODIO			
07:00	1.00		Nipple Up Down BOF	Stack	INSTALL ROTAT		BER & CEN	HER BOP'S			
08:00	2.00		Drill Ceme Float Equi		DRLG CEMENT		701 001 60 5	C 8/h - 14/OD-0	V DDM-4044	606 CDM	I-120
10:00	0.50	02	Drilling		-GPM=355 -PP=		78 - 28 @ 5	5 IVIII - WUD=0	K - KEWI-40(+))OIII-90 - 3FW	1-120
10:30	0.50	31	Pressure I Test	ntegrity	RAN FORMATIO 10.0ppg MUD W BACK THROUG 69psi. = 10.05 M	T. EQUIVALENT H PUMP) AFTE	FPESSURE R CLOSING	LOSS APPEAR	S TO BE IN S	O 69psi IN 30! URFACE EQU RESSURE ST <i>I</i>	IPMENT (
11:00	0.50		Lubricate	Rig	SERVICE RIG	314 E/ 3301 T/ 33	0.000	- MOD-0/404	C DDM-404.5	SmmOG CDM	-120
11:30	0.50	02	Drilling		DRLG NEW FOI -GPM=355 -PP= FIT STRING AC INTO CSG	650psi GETTING	3 LARGE MI	ETAL SHAVING	S OVER THE	SHAKER - WH	IEN WE RAN
12:00	3.50	09	Tripping C	out	DROP TOTCO - RE: CSG DEPTI			A - WAITING C	N CALL FROM	I ROCKY MT.	DRILLERS
15:30	1.00		Other		SWITCH OUT V					U L ED TO 056	' CDUD /
16:30	2.50		Drill Ceme Float Equi	ipment	DRLG CEMENT DRLG NEW FO	RM @ 7:00PM 2	/9/07				
19:00	2.00	31	Pressure Test	Integrity	ATTEMPTING F PRESSURED U	P TO 100psi - P	SI HELD @	79psi - 10.06pp	g MUD WT EQ	UIVILANT	OIVI -
21:00	9.00	02	Drilling		DRLG NEW FOI -GPM=355 -PP=	RM F/ 856' T/ 12 -725psi	75' - 419'@4	6.5 ft/hr - WOB	=8/10K -RPM=	35t+56m=91-S	SPM=120
COSTS Daily Cost Tota 17,9		Cumulativ	ve Cost 425,958		E Amount To 626,000	otal AFE Sup	1 -	nterest (%) C	Paily Mud Cost	Cumulativ	e Mud Cost
77 745			423,936		020,000						
MUD PROF Mud Type Inhibited	MW (lb/		V (s/qt) 27	PV Override	e (cp) YP (lbf/100ft²) 1.000	pH 9.1	Gel(10sec) (lbf/ 1.000	Gel(10min) (lbf/ 1.000	WL (mL/30min) 0.0	HTHP (mL/30min)	LCM
Water Base Filter Cake (/32		. Pm (m C) (%)	W (%) 100.	Sd (%)	Chi (mg/L) 400	MBT (lb/bbl)	Sol (%) 0.1	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf)
Avg Backgroun	d Gas (%)		Av	g Connection			Gas (%)		Avg Trip Gas	(%)	
		iauditers.					2000				
PUMP OPE	ERATION	IS									Vol/Stk OR
No.		Make	•		Model	Stro	oke (in) l	iner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	(bbl/stk)
DUMP OU	-01/0								Yra (168		
PUMP CHE	=CN3	Maki	9		Model	Pre	es (psi)	Slow Spd :	Strokes (spm)	Eff (%)	Q (gpm)
				<u> </u>				140 37:11:2:3:3:4:3:3:4:3:3:4:3:3:4:3:3:4:3:3:4:3:3:4:3:3:4:3:3:4:3:3:4:3:3:4:3:3:4:3:3:4:3:3:4:3:3:4:3:3:4:3:3:4			
BIT INFOR	MATION				Total dep						Total hours
Size (in)		Make		Туре	drilled by (ft)		epth In (ftKB)	Depth Out (ftKB)	Dull Out	IADC Codes	drilled by bit (hrs)
11	Air Hycalog		Air PDC		720 6,684	1 1	60.0 780.0	780.0 6,608.0		-	19.00 113.00
DAILY DR	ILL STRI	NG INFO	RMATION								
Bit Run Siz	e (in)	_{Make} Hycalog	Mode	(516	Depth In (ftKB) 780.0	Depth Out (ftKB) 6,608.0	Avg ROP (1	Nozzles (/32")	IADC Bit Dull	IADC (odes
Depth End (ftK	(B)	SPP (psi)		eight on Bit (1000lbf) RPM (rpm)	Drilling	Torque	PU HL (1000lbf)	SO HL (1000	Dibf) Rot H	IL (1000lbf)
DAILY HY	DRAULI	cs								LIDIA (b. f	
Max Open Hol			x Casing AV (ft/r	nin)	Bit Jet Velocity (ft/s)	Bit Pres	sure Drop (psi)	Bit Hydrau	lic Power (hp)	HP/Area (hp/i	·· <i>,</i>
					,						



Report Date: 2/9/2007 AFE#: 05-6558 Cost Type:

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:
Drilling Hours (hrs):
Report Number: 39.0

Rig Name/No: 51 Lease: ML-11124

County: Uintah
State: Utah
Depth End (ftKB): 780.0
Depth End (TVD) (ftKB):

Depth End (TVD) (ftKB):
Depth Progress (ft): 0.00
Average ROP (ft/hr):

Days From Spud (days): -0.63

CASING	PROGR	AM .				
OD (in)	Wt (lbs/ft)		Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gai)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Operation Drilling	7 06:00 s at Repor Cemen	rt Time		6:00					24hr Fo	recast		18.00		
Remarks NOTE:	7 HOU	RS W	ORKIN	G ON DRAW	WORKS I	SAC	ONTINUA	TION OF I	PREVI	OUS DRAW	WORKS REPA	AIR TIME.	gantiu ya Nati a wasonin	
DAILY	CONTA	CTS			loh (Contact	Constitution of the consti						Position	estile iki (ledi) ala di Palife i dalah da anadi dan menerak
Trevor	Murray				and a street street		TOTAL CHARACT		2000		Rig St	upervisor		
TIME L		. (hrs)	Code	De-	cription						Description OP			
06:00	пко	2.00	01	Rig Up & Down			GING UP							
08:00 11:00	-	3.00 1.50		Drilling Rig Up & Down	Tear					L KELLY SH GAS BUST	****	Library TV-		
12:30		5.00	22	Test BOR	5	250/ PRE	3000psi - ' SSURE T	TEST CSG EST - FLA	& ANI	NULAR TO SETWEEN A	250 / 1500psi NNULR & RAM	ELINES, VALVE - ALL TEST DON MS & WELLHEAI PASSED ON SE	NE W/ LOW & H D FLANGE LEA	HIGH KED ON
17:30 18:00		0.50 3.00		Subsea Pick Up I Pipe/Bott Assembl	om Hole	STR	AP/CALIB	AR BUSHIN ER BHA - HVYWT D	PICK (JP BHA - BI GED CEME	T , NEAR BIT I NT AT 620'	BS (DOG SUB)), MOTOR, IBS	, DC, IBS, 16
21:00		7.00		Other		REF	LACING (CHAINS TO	DRU	M & CATHE		UE TO EXCESS	IVE SLACK IN	CHAINS -
04:00		0.50	20	Drill Cem Float Equ	ent and/or uipment	DRL	.G CEMEN	IT & FLOA	T EQU	IIP F/ 620'				ou, seems and one
COST			Jo 1	ative Cost	Total AF	E Amo	int	Total AFE Su		Working	ı Interest (%)	Daily Mud Cost	Cumulative	e Mud Cost
Daily Cos	39,550		Cumuia	407,959	Total Ar	626,0		TOTAL AL SU	P	VVOIKING	100.00	Daily Mad Goot		
MUD F	ROPE	RTIES MW (lb/		FV (s/qt)	PV Overrid	le (cp)	YP (lbf/100ft²	') pH		Gel(10sec) (lt	ofi Gel(10min) (lb	f/ WL (mL/30min)	HTHP (mL/30min)	LCM
Filter Cal	(e (/32")	Pf (mL	Pm (m	O (%)	W (%)		Sd (%)	Chl (mg	/L)	MBT (lb/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf)
Avg Back	ground Ga	as (%)		Ā	vg Connection	Gas (9	6)		Avg Dri	ill Gas (%)		Avg Trip Ga	s (%)	
PUMP No.	OPER/	ATION	IS Me	ıke			Model		Sti	roke (in)	Liner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
PUMP No.	CHECK	(S	Me	ike			Model		Pi	rės (psi)	Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
BIT IN	FORMA	TION	ere ere Volgis								NO			
Size (Make		Туре		Total of drilled I (ft	by bit Avg F) (all) (1		Depth In (fiKB) 60.0	Depth Out (ftKB)	Dull Out	IADC Codes	Total hours drilled by bit (hrs)
7.	11 Air 825 Hy			Air PDC			I		59.2	780.0	i			113.00
DAILY Bit Run 1	Size (in 7.8)	1) 1	NG INF Make Hycalog	ORMATION Mod	el X516	De	pth In (ftKB) 780.0	Depth Ou	(ftKB) 08.0	Avg ROP (51.6	Nozzies (/32")	IADC Bit Dull	IADC C	odes
Depth Er	nd (ftKB) 780		SPP (psi)	Įv	Veight on Bit (1000lbf) RPM (rpm)	Drilling	Torque	PU HL (1000lbf)	SO HL (100	Olbf) Rot H	L (1000lbf)
	HYDRA In Hole AV			lax Casing AV (flu	min)	Bit Je	et Velocity (ft/s	9)	Bit Pre	ssure Drop (psi)) Bit Hyd	raulic Power (hp)	HP/Area (hp/in	**************************************
BOTT Jts	ом но	LE AS		LY DETAIL			OD (in)		ID	(in)	Top Thread	Len (n)	Cum Len (ft)
			1101	u oganihunii						• • • • • • • • • • • • • • • • • • •				
MUD	JSAGE					Descr	iption					Consume		On Loc
CONS	UMABI	_ES			Supply Ite	m Desc	cription				*	Consumed	Cur	n On Loc
L														



Report Date: 2/8/2007 AFE#: 05-6558 Cost Type:

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000 Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00 Target Formation:

Drilling Hours (hrs):
Report Number: 38.0

Rig Name/No: 51 Lease: ML-11124 County: Uintah

County: Uintah
State: Utah
Depth End (ftKB): 780.0
Depth End (TVD) (ftKB):
Depth Progress (ft): 0.00
Average ROP (ft/hr):

	PROGR	****				B
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	Α	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Report Nu	mber: 38	8.0			Day	s From Sp	ud (days):	-1.63				
2/7/2007 0	6:00 - 2/8	/2007 0	6:00	20 (20 (20 (20 (20 (20 (20 (20 (20 (20 (134k-1	Forecast				
Operations at F Rig Repair	•						24hr	Forecast				
Remarks		CKIID	MUD MOTO	D BIT & Y	UO SUB	DRILL OH	T RAT HOL	E REFORE W	/FIL BE READ	Y TO START	DRILLING. HAD	RIG CREW
GO AHEAD	D & STAR	T FILL	ING STEEL OUT. STILL	PITS AND	CIRC RE	SERVE PI	T, THEN ST	ART TREATII	NG WATER TO	RAISE HARD	NESS & Ph IN	
DAILY COI	NTACTS			Joh	Contact						Position	
Trevor Mur	тау	<u> </u>		30p	CORRECT	13 11 10 11 12 12 12 12 12 12 12 12 12 12 12 12			Rig Su	pervisor		
TIME LOG												
From 06:00	HRS. (hrs) 9.00	Code 01	Rig Up 8	scription & Tear		NG UP - W		HYDROMATI	Description OP C TO ARRIVE (N LOCATION	I - HAVE TO PIC	K UP KELLY
15:00 15:30	0.50 14.50	I	Lubricat Rig Up 8		SERVI	CE RIG		HYDROMATIC	C - RIG UP ČĒL	LAR JET - PIC	KED UP KELLY	,
		ļ.,	Down			. Cross. on a series was		on the contraction of	Spare Baranga Baranga Baranga Baranga	S\$ 15 25 25 25 25 25 25 25 25 25 25 25 25 25		
COSTS												
Daily Cost Tota 23.6	al 674	Cumui	lative Cost 368,409	Total A	FE Amount 626,000		al AFE Sup	Working	nterest (%) 100.00	Daily Mud Cost	Cumulativ	e Mud Cost
MUD PRO	100.000										550,51,500 550,51,51,500 550,51,51,51,51,51,51,51,51,51,51,51,51,51,	
Mud Type	MW (ib/		FV (s/qt)	PV Overr	de (cp) YP	(lbf/100ft²)	рН	Gel(10sec) (Ib	of/ Gel(10min) (lbf/	WL (mL/30min)	HTHP (mL/30min)	LCM
Filter Cake (/3:	2") Pf (mL	. Pm (m	. O (%)	W (%)	Sd	(%)	Chl (mg/L)	MBT (lb/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf)
Ávg Backgrour				Ávg Connectio	n Gas (%)		Ava I	Orill Gas (%)		Avg Trip G	ias (%)	
Avg backgrous	10 003 (70)	·		Avg Commodit	040 (70)				50 may 200 - 100 -		**************************************	o skije s sesti i ije.
PUMP OP	ERATION	IS										Vol/Stk OR
No.		М	lake			Model		Stroke (in)	Liner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	
		111. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Company and	Systematics (S.1.2) (10)	thores au Acas (en dang matapata		****		tim offers the expe	alenti mentaenti	
PUMP CH	ECKS		ake			Model	1	Pres (psi)	Slow Spd.	Strokes (spm)	Eff (%)	Q (gpm)
No.		IV	lake	diament in public	rafiti Herriacia	Model		r rea (par)	No	Oldings (opin)	1000	
BIT INFOR	RMATION											
						Total depth drilled by bi	t Avg ROP					Total hours drilled by bi
Size (in)	Air	Make	Air	Турв		(ft) 720.0	(all) (ft/hr) 0 37.9	Depth in (ftKB) 60.0	Depth Out (ftKB) 780.0	Dull Out	IADC Codes	(hrs) 19.0
	Hycalog		PD	С		6,684.0	1 1	780.0	1			113.0
DAILY DR	ILL STRI	NG INF	ORMATION									
Bit Run Siz	ze (in)	Make Hycalog	Mo			In (ftKB) 780.0	Depth Out (ftKB) 6,608.0	Avg ROP (51.6	Nozzles (/32")	IADC Bit Dull	IADC C	odes
Depth End (fth		SPP (psi)	<u> </u>	Weight on Bit		RPM (rpm)		ng Torque	PU HL (1000lbf)	SÖ HL (10	000lbf) Rot F	IL (1000lbf)
780	· .			, tolg, k o., b.	(1000,01)		S. (200 - 20					
DAILY HY											Tup(A /k-#	-20
Max Open Ho	le AV (ft/min) [Max Casing AV (Mmin)	Bit Jet V	elocity (ft/s)	Bit P	ressure Drop (psi)) Bit Hydra	aulic Power (hp)	HP/Area (hp/ir	τ)
POTTOM		SCEME	LY DETAIL									
Jts	HOLLA		m Description			OD (in)		D (in)	Top Thread	Ler	1 (ft)	Cum Len (ft)
MUD USA	(GE				Description	on	W			Consum	led	On Loc
		179.4			Maria Maria		ganaran (erszel Duggaraja II	DANGARAYAN BIRKINDA		
CONSUM	ABLES			0 1						Consumed	Cii	m On Loc
				Supply	tem Descript	uon see see		hazar baran 18 anin		Consumou	361	
SAFETY (CHECKS	- JSA										
Date			Туре			Descript	ion	2.0	t in the second	Comment		
Survey Da	ata											DI 6 (AT/ACE)
	ID (ftKB)		Incl (°)	Azm (*)	an, Deginari,	TVD (ftKB)		VS (ft)	NS (ff)		EW (ft)	DLS (*/100ft)
		L		L								



Report Date: 2/7/2007 AFE#: 05-6558 **Cost Type:**

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name: API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation: Drilling Hours (hrs): Rig Name/No: 51 Lease: ML-11124

Lease: ML-11124
County: Uintah
State: Utah
Depth End (ftKB): 780.0
Depth End (TVD) (ftKB):
Depth Progress (ft): 0.00
Average ROP (ft/hr):

CASING	PROGR/	٩M	Harriston and			
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Report Nu	imber: 3	7.0			Days From	Spud (days):	-2.03				
2/6/2007 0 Operations at Rig Repair	Report Time	/2007 06	3:00		nymis (Vei nniss) ses 99 (1915) (1970) ses 1847 (1916) (1970)	24hr	Forecast			16684111	
REPLACE	SWITCH	- EXPÉ	LOW WATER CTED OUT B 2/7/07) AFTE	Y WED. AF	TERNOON -	BURNED OUT STILL WAITING) HAVE ELE 3 ON BEARIN	CTRICIAN COM NGS & SEALS F	ING OUT WEI OR HYDRO-M	ONESDAY 2/7/0 ATIC - PARTS A	7 TO ARE
DAILY CO	NTACTS										
Trevor Mui	ггау			Job Co	ntact			Rig Su	pervisor	Position	
TIME LOG											
From : 06:00	HRS. (hrs) 10.50		Rig Repair	r	MOTOR			Description OP TCH HUB ON TO	DRQUE CONV	ERTER FOR #1	FLOOR
16:30 17:00	0.50 13.00		Other Rig Up & Down	Геаг	RAISED DERI MAKE UP KEI	LLY TO DRILL L KELLY IS MA	PM (5:30) - I OUT RAT H	RIGGING UP FL OLE UNTILL BO LL WAITING ON	ILER IS UP &	RUNNING - CAI	NOT TEST
COSTS											
Daily Cost Tot 77,	^{tal} 736	Cumula	tive Cost 344,735	Total AFE 6	Amount 26,000	Total AFE Sup	Workin	g Interest (%) 100.00	Daily Mud Cost	Cumulativ	e Mud Cost
MUD PRO							10 1/40	lbf/ Gel(10min) (lbf	/ WL (mL/30min)	HTHP (mL/30min)	li CM
Mud Type Filter Cake (/3	MW (lb.	,	FV (s/qt) O (%)	W (%)	(cp) YP (lbf/100ft ³ Sd (%)	Chl (mg/L)	Gel(10sec) (Calcium (mg/L)	Mud Lost (Hole)	
Avg Backgrou	ind Gas (%)		Ave	Connection G	as (%)	Avg	Drill Gas (%)	1	Avg Trip G	as (%)	
PUMP OP	FRATION	ıs				1					
No.		Mai	ke		Model		Stroke (iń)	Liner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
PUMP CH	ECKS	Mai	k e		Model		Pres (psi)	Slow Spd	Strokes (spm)	Eff (%)	Q (gpm)
BIT INFOR	DRIATION				Carlotti (Section	l The state of the		140			
Size (in)		Make		Туре	Total didrilled (ft)	by bit Avg ROP (all) (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)	Dull Out	IADC Codes	Total hours drilled by bit (hrs)
	Air Hycalog		Air PDC			37.9 4.00 59.2	60.0 780.0	1 1			113.00
			DRMATION			15. 4. 0 . /8//5	LA - DOD /	IN	UADO BAD.III	IADC C	
	`_ i .	^{Make} Hycalog	Model DSX		Depth In (ftKB) 780.0	Depth Out (ftKB 6,608.0	51.6	Nozzles (/32")	IADC Bit Dull	IADC C	
Depth End (fth		SPP (psi)	We	eight on Bit (10	00ibf) RPM (rpm		ing Torque	PU HL (1000lbf)	SO HL (10	00lbf) Rot H	L (1000lbf)
DAILY HY Max Open Ho			ax Casing AV (ft/m	in)	Bit Jet Velocity (ft/s		Pressure Drop (ps	i) Bit Hydra	aulic Power (hp)	HP/Area (hp/in	2)
BOTTOM Jts	HOLE AS		Y DETAIL Description		OD (in)		D (in)	Top Thread	Len	(ft)	Cum Len (ft)
MUD USA	(GE				Pescription				Consume	ad .	On Loc
CONSUM	ABLES				NO VIVE SE						n On Loc
				Supply Item	Description				Consumed	Cul	II OII LOC
SAFETY C	CHECKS	- JSA	Туре		Des	cription			Comment		
Survey Da	ata D (fiKB)		incl (°)	Azm (°)	TVD (I	RKB)	VS (ft)	NS (ft)		W (ft)	DLS (*/100ft)
					1	ı					



Report Date: 2/6/2007 AFE#: 05-6558 Cost Type:

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:
Drilling Hours (hrs):
Report Number: 36.0

Rig Name/No: 51 Lease: ML-11124 County: Uintah

State: Utah
Depth End (ftKB): 780.0
Depth End (TVD) (ftKB):
Depth Progress (ft): 0.00
Average ROP (ft/hr):

CASING	PROGRA	AM.			alound Albert	
OD (in)		Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Daté	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

кероп и	iumber: 3					ays From Spu		3.63				
	06:00 - 2/6 at Report Time		6:00		(8) (5) (2) (1) (1)		24hr F	orecast		yelanira, Jaila.		
Rig Repa												
Remarks		TI			Tarifor Salamina new meteor	87 - 12 yakaza - Banazar 1720 ko		aviana e contrata de la contrata de				
DAILY CO	ONTACTS										Position	
Trevor Mu	urray				Job Contact				Rig Su	pervisor	Position	336
COSTS								n e				
Daily Cost To	otal	Cumula	ative Cost 266,999		Total AFE Amor 626,0		AFE Sup	Worki	ng Interest (%) 100.00	Daily Mud Cost	Cumulative	Mud Cost
MUD PR	OPERTIES	3										
Mud Type	MW (lb		FV (s/qt)	PV	/ Override (cp)	YP (lbf/100ft²)	pН	Gel(10sec)	(lbf/ Gel(10min) (lbf/	WL (mL/30min)	HTHP (mL/30min)	LCM
ilter Cake ((/32") Pf (mL.	Pm (m	O (%)	w	(%)	Sd (%)	Chi (mg/L)	MBT (lb/bbl) Sol (%)	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf)
vg Backgro	ound Gas (%)		J	Avg Co	nnection Gas (%	6)	Avg D	rill Gas (%)		Avg Trip Ga	s (%)	
DUMP O	DEDATION	ie .										
	PERATION		ıke			Model		Stroke (in)	Liner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
No.	1 1 2115 55014	IVIE	ike:,	0,0, 11111		MICOGE		MOKE (III)	Ellisi Olas (III)	, (max) (po)		
PUMP CI	HECKS								01-10-1	O	E# (0/)	O (gom)
No.		Ma	ike			Model		Pres (psi)	Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
BIT INFC	RMATION	i de la companya de l										
						Total depth drilled by bit					IADO O-d	Total hours drilled by bit (hrs)
Size (in)	11 Air	Make	Ai	r	Туре	(ft) 720.00	1	Depth In (ftKB) 60	.0 780.0	Dull Out -	IADC Codes	19.0
7.82	25 Hycalog		PI	DC	014757711474	6,684.00	59.2	780.	.0 6,608.0			113.0
	RILL STRI	ING INF		N odel	De	pth In (ftKB)	epth Out (ftKB)	Ava ROP (.	Nozzles (/32")	IADC Bit Dull	IADC Co	des
1		Hycalog		SX516		780.0	6,608.0	51.6	` '			
Depth End (1	ftKB) 80	SPP (psi)		Weight	t on Bit (1000lbf	RPM (rpm)	Drillin	g Torque	PU HL (1000lbf)	SO HL (100	Olbf) Rot HL	(1000lbf)
		^0						1000				
	YDRAULIC Hole AV (ft/min		lax Casing AV	(ft/min)	Bit Je	t Velocity (ft/s)	Bit Pr	essure Drop (p	si) Bit Hydra	ulic Power (hp)	HP/Area (hp/in²)
							I					
BOTTON Jts	N HOLE AS	SSEMBI Iter	n Description	•		OD (in)	IC IC	(in)	Top Thread	Len (ft) C	um Len (ft)
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	0	18 18 18 18 18 18 18 18 18 18 18 18 18 1	arian i	1			8 74 64 54 65 6		a komali za salist	1015 1 3 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		tana ara ara ara ara			BARRIO BERT BUR				#11444-1- HOLLY 350 CONTROL			
MUDUS	AGE				Descr	ption	i er se			Consumed		On Loc
MUDUS	AGE				Descr	ption				Consumed		On Loc
				S	Descr					Consumed		On Loc
				S								
CONSU	MABLES	- JSA	Tuna	S		ription						
CONSUM SAFETY Date	MABLES	- JSA	Туре	S			in .			Consumed		
CONSUM SAFETY Date Survey I	MABLES	- JSA	Type			ription		The second secon	NS (ft)	Consumed	Cum	
CONSUM SAFETY Date Survey I	MABLES CHECKS	- JSA			upply item Desc	ription Description				Consumed	Cum	On Loc
CONSUM SAFETY Date Survey I	MABLES CHECKS	- JSA			upply item Desc	ription Description				Consumed	Cum	On Loc
SAFETY Date Survey [MABLES CHECKS	- JSA			upply item Desc	ription Description				Consumed	Cum	On Loc
SAFETY Date Survey [MABLES CHECKS	- JSA			upply item Desc	ription Description				Consumed	Cum	On Loc
SAFETY Date Survey [MABLES CHECKS	- JSA			upply item Desc	ription Description				Consumed	Cum	On Loc
SAFETY Date Survey [MABLES CHECKS	- JSA			upply item Desc	ription Description				Consumed	Cum	On Loc
Date Survey [MABLES CHECKS	- JSA			upply item Desc	ription Description				Consumed	Cum	On Loc



Report Date: 2/5/2007 AFE#: 05-6558 **Cost Type:**

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):
Original KB Elevation (ft): 5,455.00

Target Formation:

Rig Name/No: 51 Lease: ML-11124
County: Uintah
State: Utah

Depth End (ftKB): 780.0 Depth End (TVD) (ftKB):

Depth Progress (ft): 0.00

CASING	PROGR/	1 M	wksheretta hit i	Party House	1,200,123,2011	
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Avg Background Gas (%)		ber: 35.0	0				verage ROP ays From S _l		s): -4.6	i3						
DAILY CONTACTS Job Contact Rig Supervisor	Operations at Rep Rig Repair	00 - 2/5/2 port Time	007 06	:00					24hr Fore	HOUSE AND STORY				<u> </u>		
Passage Pass	Remarks									Pr. 4 14 19 19 18 18 18 18 18 18 18 18 18 18 18 18 18	Badelous	v presante victore		Markey Section 1997 to	1 1/19 32.11	
Comparison Com	DAILY CONT	ACTS										- Da	x: 3	Daaitlan		
Consumer and June Cons	revor Murray	y	10876			Job Contact					61/36/41 s.e.	Rig Su	pervisor	Position		
Constitute Con	COSTS															11 30 4
Model	Daily Cost Total		Cumula		99			ital AFE Sup		Workin			Daily Mud Cost	C	umulative	Mud Cost
Multiple Mark Multiple Mark Multiple Multip	MUD PROPE	RTIES														
No. Make Model Stroke (in) Liner Size (in) P (max) (pa) Vol/Sk (bbl/sk) Vol/Sk (bbl/sk			il)	FV (s/qt)	F	V Override (cp)	YP (lbf/100ft²)	рН		Gel(10sec) ((ibf/	Gel(10min) (lbf/	WL (mL/30min) HTHP (mL		
Pump OPERATIONS No. Make Model Stroke (in) Liner Size (in) P (max) (pel) Vol/Sik (bbl/stik) Vol/	ilter Cake (/32")	Pf (mL F	²m (m	O (%)	V	V (%)	Sd (%)	Chi (mg/L)	MBT (lb/bbl))	Sol (%)	Calcium (mg/L) Mud Lost (Hole)	Mud Lost (Surf)
No. Make Model Stroke (iii) Liner Size (iii) P (mao) (pit) Vol/Six (bbUsts)	vg Background (Gas (%)			Avg C	Connection Gas (%	6)		Avg Drill	Gas (%)			Avg Trip (Gas (%)		
No. Make Model Stroke (iii) Liner Size (iii) P (mao) (psi) VoliSik (bbUstik) VoliSik (bbus		ATIONS		an Cal												
PUMP CHECKS No. Make Model Pres (ps) Slow Spd Strokes (spm) Eff (%) Q (gr No No No No No No Make Type Grid depth Aug ROP Depth in (ft/KB) Depth Out (ft/KB) Depth		KAHONS					Model		Strol	(e (in)	Line	ar Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
No	NO.	1 34 -31 -	Mai	Ke .			IVIOGE	204 222 223	0.0	(11)	1 LIMP	// Olco (III /		100 000 000 000 000		
No No No No No No No No		CKS					Magel		D-c	(asi)	e,	loui Sad	Strokes (som)	F# (%)	T	Q (gpm)
Size (in) Make	No.	ir i taleiu tale	Mal	Ke .		.	Model		FIE	(psr)	01		Outries (april)	<u> </u>		~ (Sp.,,)
Size (in) Make Type (if) Avg ROP Depth in (fixB) Depth Out (fixB) Depth O	BIT INFORM	ATION												A		Total hours
11 Air							drilled by	bit Avg RO)P	-u- i- /8//8\		oth Out (BKB)	Dull Out	IADC	odes.	drilled by bit
DAILY DRILL STRING INFORMATION Sit Run Size (in) Make Model Depth in (fit(B) F80.0 F80.0	11 A	ir	Make	<u> Maria di Saka</u>	1	Type	720.	00 3	7.9	60.	.0	780.0			,000	19.00
Size (in) Size (in) Make Model Depth In (ft(RB) 780.0 6,608.0 51.6 Nozzles (/32") IADC Bit Dull IADC Godes	7.825 H	lycalog			PDC		6,684.	00 5	9.2	780.	.0	6,608.0				113.00
1 7.825 Hycalog DSX516 780.0 6,608.0 51.6 — — — — — — — — — — — — — — — — — — —				DRMAT		De	pth In (ftKB)	Depth Out	(fiKB)	Avg ROP (Nozz	zles (/32")	IADC Bit Dull		IADC Co	odes
Table Transport (Interpretation of the property of the propert			/calog		DSX5	16		6,60			<u> </u>				<u></u>	
DAILY HYDRAULICS Max Open Hole AV (ft/min) Max Casing AV (ft/min) Bit Jet Velocity (ft/s) Bit Pressure Drop (psi) Bit Hydraulic Power (hp) HP/Area (hp/in²) BOTTOM HOLE ASSEMBLY DETAIL Jts Item Description OD (in) ID (in) Top Thread Len (ft) Cum Len (ft) Cum Len (ft) Consumed On Loc CONSUMABLES Supply Item Description Consumed Cum On Loc SAFETY CHECKS - JSA		SF	P (psi)		Weig	ht on Bit (1000lbf	RPM (rpm)		Drilling T	orque	P	U HL (1000lbf)	SO HL (1	000lbf)	Rot HI	. (1000lbt)
Max Open Hole AV (ft/min) Max Casing AV (ft/min) Bit Jet Velocity (ft/s) Bit Pressure Drop (psi) Bit Hydraulic Power (hp) HP/Area (np/inr) BOTTOM HOLE ASSEMBLY DETAIL Jts Item Description OD (in) ID (in) Top Thread Len (ft) Cum Len (ft) MUD USAGE Description On Loc CONSUMABLES Supply Item Description Consumed Cum On Loc SAFETY CHECKS: - JSA	DAILY HYDE	RAULICS														
MUD USAGE Description Description Description Consumed Consumed Cum On Loc SAFETY CHECKS - JSA				ax Casing	AV (ft/min) Bit Je	et Velocity (ft/s)		Bit Press	ure Drop (ps	si)	Bit Hydra	aulic Power (hp)	HP/Are	ea (hp/in³	·)
MUD USAGE Description Description Description Consumed Consumed Cum On Loc SAFETY CHECKS - JSA	воттом но	OLE ASS	EMBL	Y DET	AIL											
CONSUMABLES Supply Item Description Consumed Cum On Loc SAFETY CHECKS - JSA			lten	Descripti	ion		OD (in)		ID (in)		Top Thread	Le	n (ft)	(Cum Len (ft)
CONSUMABLES Supply Item Description Consumed Cum On Loc SAFETY CHECKS - JSA	MUDUSAGI									1,121,1						
Supply Item Description Consumed Curr On Loc SAFETY CHECKS - JSA	INOD OSAGI					Descr	ption			100	35,0		Consur	ned	13/2011	On Loc
Supply Item Description Consumed Curr On Loc SAFETY CHECKS - JSA	CONOUNA	n Fo			-2, selfores A tempoti											
SAFETY CHECKS - JSA Date Type Description Comment	CONSUMAE	SLEO				Supply Item Desc	ription		i de la composición dela composición de la composición dela composición de la compos		<u>(</u> 2016)		Consumed		Cun	On Loc
SAFETY CHECKS - JSA Date Type Description Comment									i Çeyin	72.11						
	SAFETY CH	ECKS -	JSA	Туре	háine. Lugasin		Descri	ption					Commen			
Survey Data							Programment and	area nasa			85 (35) (87) W 85 (87) (15)	XIII XIII		500, 85169	Definite f	
MD (ftkB)	Date	9	Gana Sa	i ini									ta an include the contract of the contract of	4-5 12-22 3-33/4	100	



Report Date: 2/4/2007 AFE#: 05-6558 **Cost Type:**

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:

Rig Name/No: 51 Lease: ML-11124 County: Uintah State: Utah

Depth End (ftKB): 780.0 Depth End (TVD) (ftKB): Depth Progress (ft): 0.00

<u> </u>	PROGR	TOWN.			fred continues as and	
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	Ā	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Report Number: 34	1.0			Days Fron	n Spud (days)	: -5.63				
2/3/2007 06:00 - 2/4	2007 0	6:00			124	hr Forecast				
Remarks										
DAILY CONTACTS			Job Con	lact					Position	
Trevor Murray		***************************************	JUD COI	iaut g			Rig St	upervisor		78 81, 15 PF
COSTS					Transfer 6	Dar-Air-	g Interest (%)	Daily Mud Cost	Cumulativ	e Mud Cost
Daily Cost Total	Cumula	tive Cost 266,999	Total AFE A	26,000	Total AFE Sup	VVOIRIN	100.00	Daily Mud Cost	Cumulativ	HIGH COST
MUD PROPERTIES Mud Type MW (lb/	gal)	FV (s/qt)	PV Override (d	:p) YP (lbf/100	ft²) pH	Gel(10sec) (I	bf/ Gel(10min) (lb	f/ WL (mL/30min)	HTHP (mL/30min)	LCM
Filter Cake (/32") Pf (mL	Pm (m	O (%)	W (%)	Sd (%)	Chl (mg/L)	MBT (lb/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf)
Avg Background Gas (%)			Avg Connection Ga	as (%)	A	/g Drill Gas (%)		Avg Trip G	as (%)	
PUMP OPERATION	S									
No.	Ma	ike		Model		Stroke (in)	Liner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
PUMP CHECKS										
No.	Me	ike .		Model		Pres (psi)	Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
BIT INFORMATION					depth					Total hours
Size (in)	Make		Туре		d by bit Avg ROF ft) (all) (ft/hr	Depth In (ftKB)	Depth Out (ftKB)	Dull Out	IADC Codes	drilled by bit (hrs)
11 Air 7.825 Hycalog		Ai PI	DC	I .	720.00 37. 684.00 59.		i	1		113.00
DAILY DRILL STRII	NG INF	ORMATIO	N							
Dia Direction (in)				Donth In (ftKR)	Denth Out (ft	(B) Ava ROP (Nozzles (/32")	IADC Bit Dull	IADC C	odes
1 7 7 1	_{lake} Iycalog	M	lodel DSX516	Depth In (ftKB) 780.0	Depth Out (ft 6,608		Nozzies (/32")	IADC Bit Dull	IADC C	odes
1 7.825 H	lake	M	lodel	780.0	6,608		Nozzies (/32") PU HL (1000lbf)		-	 (1000lbf)
1 7.825 F Depth End (ftKB) 780 DAILY HYDRAULIC	lake Hycalog SPP (psi)	M	lodel DSX516 Weight on Bit (100	780.0	6,608.	0 51.6	PU HL (1000lbf)	SO HL (10	Rot Hi	 _ (1000lbf)
1 7.825 Page 1	lake Hycalog SPP (psi)	M	lodel DSX516 Weight on Bit (100	780.0	6,608.	0 51.6	PU HL (1000lbf)		-	 _ (1000lbf)
1 7.825 P Depth End (ftKB) 780 P DAILY HYDRAULIC Max Open Hole AV (ft/min)	lake Hycalog SPP (psi) S	M C	lodel DSX516 Weight on Bit (100 (ff/min)	780.0	6,608. m) D Vs) B	0 51.6	PU HL (1000lbf)	SO HL (10	Rot Hi	 _ (1000lbf)
1 7.825 Popth End (ftKB) 780 Popth End (f	lake Hycalog SPP (psi) S	ax Casing AV	lodel DSX516 Weight on Bit (100 (ff/min)	780.0 Olbf) RPM (rp	6,608. m) D Vs) B	0 51.6 rilling Torque	PU HL (1000lbf)	SO HL (10	Rot Hi	 -(1000lbf) ')
1 7.825 Popth End (ftKB) 780 Popth End (f	lake Hycalog SPP (psi) S	ax Casing AV	lodel DSX516 Weight on Bit (100 (ff/min) B	780.0 Olbf) RPM (rp	6,608. m) D Vs) B	0 51.6 rilling Torque	PU HL (1000lbf)	SO HL (10	HP/Area (hp/in	 -(1000lbf) ')
1 7.825 Popth End (fiKB) 780 Popth End (fiKB) 780 Popth End (fix Max Open Hole AV (fix Min) Popth End	lake Hycalog SPP (psi) S	ax Casing AV	lodel DSX516 Weight on Bit (100 (ft/min) B	780.0 Oibf) RPM (rpi	6,608. m) D Vs) B	0 51.6 rilling Torque	PU HL (1000lbf)	SO HL (10	HP/Area (hp/in	(1000lbf) ") Cum Len (ft) On Loc
1 7.825 Page 1	lake Hycalog SPP (psi) S	ax Casing AV	lodel DSX516 Weight on Bit (100 (ff/min) B	780.0 Oibf) RPM (rpi	6,608. m) D Vs) B	0 51.6 rilling Torque	PU HL (1000lbf)	SO HL (10	HP/Area (hp/in	(1000lbf)
1 7.825 Page 1	lake Hycalog SPP (psi) S M SEMBI	ax Casing AV	lodel DSX516 Weight on Bit (100 (ft/min) B	780.0 Oibf) RPM (rpi iit Jet Velocity (fi OD (in) escription	6,608. m) D Us) B	0 51.6 rilling Torque	PU HL (1000lbf)	SO HL (10	HP/Area (hp/in	(1000lbf) ") Cum Len (ft) On Loc
1 7.825 Page 1	lake Hycalog SPP (psi) S M SEMBI	ax Casing AV LY DETAIL n Description	lodel DSX516 Weight on Bit (100 (ft/min) B	780.0 Oibf) RPM (rpi iit Jet Velocity (fi OD (in) pescription	6,608. m) D Vs) B	0 51.6 rilling Torque It Pressure Drop (psi	PU HL (1000lbf)	SO HL (10 raulic Power (hp) Len Consum Consum	HP/Area (hp/in	(1000lbf) ") Cum Len (ft) On Loc



Report Date: 2/3/2007 AFE#: 05-6558 **Cost Type:**

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name: API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation: Drilling Hours (hrs): Rig Name/No: 51 Lease: ML-11124

County: Uintah
State: Utah
Depth End (ftKB): 780.0
Depth End (TtKB): Depth Progress (ft): 0.00 Average ROP (ft/hr):

CASING	PROGRA	AIM		7.98. III. W		
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Report Nu	mber: 3	33.0			D	ays From S	pud (days):	-6.63						
2/2/2007 06 Operations at F Rig Repair Remarks			6:00				241	or Forecast						
DAILY COI	NTACTS			7.000 79. Tr 15.00 (1.00)		ar to								
Trevor Mur	rav	.1.11111111111		LEN VAL	Job Contact					Ria Su	pervisor	Position		
										, .,, <u>, .,, ., ., ., ., ., ., ., ., ., ., ., .</u>		ękiejej		
COSTS Daily Cost Tota	1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	Cumul	ative Cost 266,99	9	Total AFE Amou	1	tal AFE Sup	<u> </u> w		nterest (%) 100.00	Daily Mud Cost	C	umulative	Mud Cost
MUD PROI	PERTIES		FV (s/qt)	To	V Override (cp)	YP (lbf/100ft²)	Hq	Gel(10s	ec\ (lbf/	Gel/10min) /lht/	WL (mL/30min)) HTHP (mL	/30min\ [1	CM
							.		, .	' ''	,			
Filter Cake (/32		Pm (m	. (0 (%)			Sd (%)	Chł (mg/L)	MBT (lb		Sol (%)	Calcium (mg/L)		(Hole)	Mud Lost (Surf)
Avg Backgroun	nd Gas (%)			Avg C	Connection Gas (%)	Avg	g Drill Gas (%)			Avg Trip G	ias (%)		
PUMP OPE	ERATIO	NS												
No.		M	ake			Model		Stroke (in)	l	Iner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
PUMP CHE	=CK6													
No.	LUNG	M	ake			Model		Pres (psi)		Slow Spd No	Strokes (spm)	Eff (%)		Q (gpm)
BIT INFOR	MATION	İ												
Size (in)		Make			Туре	Total dept drilled by b (ft)	Avg ROP (all) (ft/hr)	Depth in (f		Depth Out (ftKB)	Dull Out	IADC (Codes	Total hours drilled by bit (hrs)
	Air Hycalog	l		Air PDC		720.0 6,684.0	1	1	60.0 80.0	780.0 6,608.0				19.00 113.00
DAILY DRI			ORMATI		ID	ab le /#VD\	Depth Out (ftK	B) Avg RO	D (N	lozzies (/32")	IADC Bit Dull		IADC Cod	dos
	1. 1	_{Make} Hycalog	l	Model DSX51		780.0	6,608.0			10221es (/32)			LADO GOO	
Depth End (ftK 780		SPP (psi)	*****	Weig	ht on Bit (1000lbf)	RPM (rpm)	Dri	lling Torque		PU HL (1000lbf)	SO HL (10)00lbf)	Rot HL	(1000lbf)
DAILY HY	DRAULI	cs	1						i -i i					
Max Open Hole	e AV (ft/min) N	lax Casing A	V (ft/min)	Bit Jet	Velocity (ft/s)	Bit	Pressure Drop	psi)	Bit Hydra	ulic Power (hp)	HP/Are	ea (hp/in²)	
BOTTOM I	HOLE AS		LY DETA			OD (in)		ID (in)		Top Thread	Len	ı (ft)	Ci	um Len (ft)
MUD USA	GE													
					Descrip	otion					Consum	ed	<u> </u>	On Loc
CONSUMA	ABLES				Supply Item Descr	iption					Consumed		Cum	On Loc
SAFETY C	HĘCKS	- JSA												
Date			Туре	187.18 VA	CEUSE (SECTIO	Descrip	uon		6(98 3 (1))		Comment	ger arvester es		
Survey Da MD	ita (ftKB)		Incl (°)		Azm (°)	TVD (ftKB)	VS (fi)		NS (ft)		EW (ft)	0	DLS (°/100ft)
				1					<u> </u>				_1	



Report Date: 2/2/2007 AFE#: 05-6558 **Cost Type:**

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name: API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:

Rig Name/No: 51 Lease: ML-11124

County: Uintah
State: Utah
Depth End (ftKB): 780.0
Depth End (TVD) (ftKB): Depth Progress (ft): 0.00
Average ROP (ft/hr):

0/10/110	PROGR	Add Carrie	وفياسية والاعتراء بالمستواص	Contract Con	1 / December 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1	<u> </u>
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Report N							ys From	•	•	-7.63						
2/1/2007 (Operations at Rig Repai	t Report T		06:00	l example i					24hr	Forecast		S		emmere Blake Mesov 1 Statistica – 1981	P Laye	
Remarks																
DAILY CO	ONTAC	гs														
Trevor Mu	ırray		E 0.89		Job C	ontact						Rig Su	ıpervisor	Position	Loser	
TIME LO				Descrip	e de la companya de							Description OP				
6:00	HRS. (h	.00 11	ode :::	Rig Repair	1011	CLUT	CHES - I	BRAKI	E PADS I	PROJEC	TED	CHANGING OL DATE FOR FIN VERED TO LO	IISHING REF	PAIRS IS SU	UNDAY F	FEB 4th -
COSTS Daily Cost To	otal	lCum	nulative (Cost	Total AFE	E Amour	nt	Total Al	FE Sup	Į v	/orking	Interest (%)	Daily Mud Cost	Į,	Cumulative I	Mud Cost
	921			6,999	1	626,0						100.00			erification of the	Terresport (Jan 198
MUD PRO Mud Type		ES (lb/gal)	FV (s/qt)	PV Override	(cp)	/P (lbf/100ft²) p l	1	Gel(10:	sec) (lb	of/ Gel(10min) (lbf	7 WL (mL/30m	in) HTHP (m	nL/30min) L	СМ
Filter Cake (/			n O (%		W (%)		3d (%)	Cr	nl (mg/L)	MBT (III	·	Sol (%)	Calcium (mg	/L) Mud Lost	(Hole) M	flud Lost (Surf)
·		\$, maray	at in legion file	To symbol		To James 1987a									
PUMP OF	PERATI		Make		T		Model			Stroke (in)	1	Liner Size (in)	P (max) (psi)	Vol/Sik	(bbl/stk)	Vol/Stk OR (bbl/stk)
					Same Same			an de la companya de								
PUMP CH	HECKS		Make				Model			Pres (psi)		Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
BIT INFO	RMATI	ON							<u> </u>							
							Total d	by bit	Avg ROP				5.05	450		Total hours drilled by bit (hrs)
	1 Air	Make		Air PDC	Type	<u>(postjali</u>	(ft) 72 6,68	0.00	(all) (fl/hr) 37.9 59.2	Depth In (60.0 780.0		Dull Out		Codes	19.00
DAILY DE	5 Hycal		IEODI				0,00	4.00	39.2		60.0	0,000.0				110.00
	ize (in) 7.825	Make Hycald		Model DSX5	16	Dept	th In (ftKB) 780.0	Dep	th Out (ftKB) 6,608.0) Avg R0		Nozzies (/32")	IADC Bit Dull		IADC Cod	les
Depth End (fi		SPP (ps		Weiç	ght on Bit (1	000lbf)	RPM (rpm))	· · · · · · · · · · · · · · · · · · ·	ng Torque		PU HL (1000lbf)	SOHL	(1000lbf)	Rot HL ((1000lbf)
DAILY H			Max Ca	asing AV (ft/min)	Bit Jet	Velocity (ft/s)	Bit P	ressure Dro	p (psi)	Bit Hydr	aulic Power (hp)	HP/A	rea (hp/in²)	
BOTTOM Jts	HOLE		BLY D			l Line	OD (in)			D (ln)		Top Thread	i L	en (ft)	T Ci	um Len (ft)
<u> </u>							2000									
MUD USA	AGE		1 () () () () () () () () () (Descrip	tion						Consi	ımed	3 () () () () () () () () () (On Loc
CONSUN	MABLES	3			Supply Iten		ption						Consumed		Cum (On Loc
		,,														
SAFETY Date		(S - JSA		уре			Des	cription					Comme	nt	3.24	
Survey D	Data MD (ftKB)		Inc	d (°)	Azm (°)		TVD (f	tKB)		VS (ft)		NS (ft)		EW (ft)	D.	LS (*/100ft)
							1		I							



Report Date: 2/1/2007 AFE#: 05-6558 Cost Type:

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:
Drilling Hours (hrs):
Report Number: 31.0

Rig Name/No: 51 Lease: ML-11124 County: Uintah State: Utah Depth End (ftKB): 780.0

Depth End (ftKB): 780.0 Depth End (TVD) (ftKB): Depth Progress (ft): 0.00 Average ROP (ft/hr):

CASING	PROGR/	AM .			<u> Hylla , aka</u>	
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	Α	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

No. Make Model Stroke (in) Liner Size (in) P (mex) (psi) Vol/Sik (bbl/stk) (bbl/stk)	Prilling H						Average ROP Days From S		rs): -8	.63					
Miss Log Passer	erations at ig Repai	Report T		06:00					24hr For	Control of the Contro				terigaren (h. 1.) Ali ilda (h. 1.)	**************************************
ME LOG		89047	T S : 2			Job Contac	* 18 18 18 18 18 18 18 18 18 18 18 18 18				Rig S	Supervisor	Position		
	ME LO	G HRS. (F					WN FOR RIG	REPAIR	₹\$		Description OF				
Type MW (Bicagn) FV (seqt) PV (certridor(s) VP (bit 100ff) pH Gel (Tobes) (bit. Gel (Tobes) (bit. Gel (Tobes) Bit. Coacidum (mpL) MM (mcDam) HTHP (mcDam) HTHP (mcDam) HTHP (mcDam) HTHP (mcDam) HTHP (mcDam) HTMP (mcDam) HTMP (mcDam) HTML (bit (Hole)) Avg Trip Gas (%) Mul Lost (Hole) Mul Lost (Hole) Mad Lost (Hole) Avg Trip Gas (%) Avg Trip Gas (%) Vol/Six (bit (Hole)) No. Avg Trip Gas (%) Vol/Six (bit (bit (Hole)) Vol/Six (bit (bit (h	ly Cost To		Cumul	lative Cost				otal AFE Sup	D	Workin		Daily Mud Cost		Cumulative I	ฟืนd Cost
ar Cale (327) Pf (nL Pmt (m. 0 (%) W (%) Sd (%) Chi (mg/L) M65 (fbbbi) Scl (%) Calicium (mg/L) Mod Lost (Hole) Mod Los				FV (s/at)	ΙΡ	V Override (cp)	YP (lbf/100ft²)	pH		Gel(10sec) (lbf/ Gel(10min) (l	bf/ WL (mL/30m	in) HTHP(mL/30min) Lr	СМ
UMP OPERATIONS No. Make Model Stroke (in) Liner Stas (in) P (maxit (pai) Vot/Six (pb/rsk) Vot/Six (bb/rsk)								ľ	L)	, , , ,					
No	Backgro	und Gas (%)		Avg C	onnection Gas (<u> </u> %)		Avg Dril	I Gas (%)		Avg Trip	Gas (%)		
No	JMP OF	PERAT	ONS												
No				ake			Model		Str	oke (in)	Liner Size (in)	P (max) (psi)	Vol/St	k (bbl/stk)	Vol/Stk OR (bbl/stk)
No	JMP CI	HECKS													
Total depth Aug ROP Belt Nut (RKB) Depth Out (RKB) Depth			М	ake			Model	52.58 51X	Pre	es (psi)		Strokes (spm)	Eff (S	%)	Q (gpm)
Size (in) Make	T INFO	RMATI	ON				1 Total dep	ın I		66.7					Total hou
Table Tabl			Make			Туре	drilled by (ft)	bit Avg R (all) (fi	Vhr) D				IAD(C Codes	drilled by (hrs)
Run Size (in) Make Model Depth In (fit(B) 7.825 Hycalog DSX516 Depth In (fit(B) 780.0 6,608.0 51.6 Nozzles (/32") IADC Bit Dull IADC Codes DSX516 DSX516 DSX516 T80.0 F80.0 F80.		1	log		1		l.					1			19. 113.
1 7.825 Hycalog DSX516 780.0 6,608.0 51.6 pih End (fik8) SPP (psi) Weight on Bit (1000lbf) RPM (rpm) Drilling Torque PU HL (1000lbf) SO HL (1000lbf) Rot HL (1000lbf) AILY HYDRAULICS X Open Hole AV (ft/min) Max Casing AV (ft/min) Bit Jet Velocity (ft/s) Bit Pressure Drop (psi) Bit Hydraulic Power (hp) HP/Area (hp/in²) OTTOM HOLE ASSEMBLY DETAIL Jts Item Description OD (in) ID (in) Top Thread Len (ft) Cum Len (ft) UD USAGE Description Description Consumed On Loc ONSUMABLES Supply Item Description Consumed Cum On Loc AFETY CHECKS - JSA Date Type Description Comment Univery Data				ORMAT		Do	epth in (ftKB)	Depth Out	(ftKB)	Avg ROP (Nozzies (/32")	IADC Bit Dull		IADC Cod	es
AILY HYDRAULICS ax Open Hole AV (ft/min) Max Casing AV (ft/min) Bit Jet Velocity (ft/s) Bit Pressure Drop (psi) Bit Hydraulic Power (hp) HP/Area (hp/in²) OTTOM HOLE ASSEMBLY DETAIL Jts Item Description OD (in) ID (in) Top Thread Len (ft) Cum Len (ft) IUD USAGE Description Consumed On Loc ONSUMABLES Supply Item Description Comment Cum On Loc AFETY CHECKS - JSA Date Type Description Comment Comment Cum On Loc	1	7.825			-1			6,60			IBIL UL (1000 6	F 180 HI	1000thf\		1000lbf)
AFETY CHECKS - JSA Date Type Description Dit Jet Velocity (ft/s) Bit Pressure Drop (psi) Bit Hydraulic Power (hp) HP/Area (hp/ln²) Cum Len (ft) Cum Len (ft) Consumed On Loc ONSUMABLES Supply Item Description Consumed Cum On Loc AFETY CHECKS - JSA Date Type Description Comment Comment Comment			SPP (psi)		vveigr	nt on Bit (1000ib	ii) Kewi (ipili)		Driming	rorque	PO TIE (TOOOIS	,, John L		77 1 1 1 1	
IUD USAGE Description De	AILY H	YDRAU ole AV (ft/	LICS	Max Casing	AV (ft/min)	Bit J	let Velocity (ft/s)		Bit Pres	sure Drop (psi	i) Bit Hy	draulic Power (hp)	HP//	Area (hp/in²)	
IUD USAGE Description De	OTTON	L HOLE	ACCEMP	I V DET	A II										
ONSUMABLES Supply Item Description Consumed On Loc Consumed Cum On Loc Consumed Cum On Loc Comment Comment Comment Comment Comment		HOLE	ASSEMID	m Descripti	on		OD (in)		ID (i	n)	Top Thread	L Company	en (ft)	Cu	m Len (ft)
ONSUMABLES Supply Item Description Consumed Cum On Loc AFETY CHECKS - JSA Date Description Comment Urvey Data	UD US	AGE										Canal		T	20100
AFETY CHECKS - JSA Date Type Description Comment urvey Data Cum On Loc Comment Comment						Desc	ription					Consc	neu		#1 LOC
Date Type Description Comment Urvey Data	ONSUN	ABLES	3			Supply Item Des	cription					Consumed		Cum C	On Loc
Date Type Description Comment Urvey Data	4 EE TO 2	OUEO													
urvey Data MD (ftKB) Incl (*) Azm (*) TVD (ftKB) VS (ft) NS (ft) EW (ft) DLS (*/100ft)		CHECI	(2 - J2A	Туре	#127 178 18 #127 178 18		Descrip	otion				Comme	nt		
	urvey C)ata MD (fiKB)		Incl (°)		Azm (*)	TVD (ftKl	3)	T	VS (ft)	NS (f	1)	EW (ft)	D	LS (°/100ft)
														l	



Report Date: 1/31/2007 AFE#: 05-6558

Report Printed: 7/20/2007

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name: API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:

Rig Name/No: 51 Lease: ML-11124 County: Uintah

State: Utah
Depth End (ftKB): 780.0
Depth End (TVD) (ftKB): Depth Progress (ft): 0.00
Average ROP (ft/hr):

CASING	PROGRA	4M				
OD (ln)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	
	1	ł				

		0.0		ļ	Days From S	pud (days):	-9.63				
1/30/2007 Operations at Rig Repair Remarks	Report Time	31/2007 0	06:00			24hr	r Forecast				
DAILY CO	NTACTS										
Frevor Mui	i ja ka			Job Contac	ct			Rig Su	pervisor	Position	11. 14175 12.2 1.11111
TIME LOG											
From	HRS. (hrs) 24.00	Code 11	Descrip Rig Repair	RIC	3 REPAIRS - I IAFT - REPLA	DRAW WOF	RKS IN THE SH ROMATIC - WII	Description OP HOP TO REPLA NTERIZING RIG	CE DRUM BE	ARINGS & POS	SIBLY DRUM
COSTS											
Daily Cost Tot 4,9	tal 921	Cumulativ	re Cost 259,212	Total AFE Am 626	ount To	tal AFE Sup	Working	Interest (%) 100.00	Daily Mud Cost	Cumulative	Mud Cost
MUD PRO											
Mud Type	MW (lb/		V (s/qt)	PV Override (cp)		pH	Gel(10sec) (lb		/ WL (mL/30min)	HTHP (mL/30min)	
ilter Cake (/3	32") Pf (mL	Pm (m O) (%)	W (%)	Sd (%)	Chi (mg/L)	MBT (lb/bbl)	Sol (%)	Calcium (mg/L)	`	Mud Lost (Surf)
Avg Backgrou	ind Gas (%)		Avg	Connection Gas	(%)	Avg	Drill Gas (%)		Avg Trip G	as (%)	
PUMP OP	ERATION	S									
No.		Make			Model		Stroke (in)	Liner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
		Filtra, a High									
PUMP CH No.	IECKS	Make)		Model		Pres (psi)	Slow Spd	Strokes (spm)	Eff (%)	Q (gpm)
							:: Succession (Succession (Suc	No			
BIT INFO	RMATION			74.	Total dept						Total hour
Size (in)		Make		Туре	drilled by t	(all) (ft/hr)	Depth in (ftKB)	Depth Out (ftKB)	Dull Out	IADC Codes	(hrs)
	Air Hycalog		Air PDC		720.0 6,684.0		60.0 780.0	780.0 6,608.0			113.0
1 2 2 3	1.00	NG INFO	RMATION								
	ize (in)	fake	Model DSX5		Pepth In (ftKB) 780.0	Depth Out (ftKE 6,608.0		Nozzles (/32")	IADC Bit Dull	IADC Co	odes
	7.825 H	lycalog	שאפען			Indi	ling Torque	PU HL (1000lbf)	SO HL (10	00lbf) Pot HI	(4000)66
Depth End (fti 78	KB)	Hycalog SPP (psi)		ght on Bit (1000lt	of) RPM (rpm)				GO TIE (10	(OOIDI)	_ (1000lbf)
78 DAILY HY	KB) 0 'DRAULIC	SPP (psi)	Wei							CACCO MATERIAL CONTROL OF THE CONTRO	
78 DAILY HY	KB) 0 'DRAULIC	SPP (psi)			Jet Velocity (ft/s)				aulic Power (hp)	HP/Area (hp/in	
78' DAILY HY Max Open Ho BOTTOM	KB) 0 /DRAULIC	SPP (psi) S Max	Wei		Jet Velocity (ft/s)	Bit	Pressure Drop (psi)	Bit Hydra	aulic Power (hp)	HP/Area (hp/in²)
78 DAILY HY Max Open Ho	KB) 0 /DRAULIC	SPP (psi) S Max	Wei			Bit				HP/Area (hp/in²	
78 DAILY HY Max Open Ho BOTTOM Jts	YDRAULIC ORAULIC	SPP (psi) S Max	Wei	n) Bit	Jet Velocity (ft/s) OD (in)	Bit	Pressure Drop (psi)	Bit Hydra	aulic Power (hp)	HP/Area (hp/in ²	Cum Len (ft)
78 DAILY HY Max Open Ho BOTTOM Jts	YDRAULIC ORAULIC	SPP (psi) S Max	Wei	n) Bit	Jet Velocity (ft/s)	Bit	Pressure Drop (psi)	Bit Hydra	aulic Power (hp)	HP/Area (hp/in ²)
DAILY HY Max Open Ho BOTTOM	KB) 0 /DRAULIC lle AV (fl/min) HOLE AS	SPP (psi) S Max	Wei	n) Bit	Jet Velocity (ft/s) OD (in) cription	Bit	Pressure Drop (psi)	Bit Hydra	Len Consume	HP/Area (hp/in'	On Loc
78i DAILY HY Max Open Ho BOTTOM Jts MUD USA	KB) 0 /DRAULIC lle AV (fl/min) HOLE AS	SPP (psi) S Max	Wei	n) Bit	Jet Velocity (ft/s) OD (in) cription	Bit	Pressure Drop (psi)	Bit Hydra	aulic Power (hp)	HP/Area (hp/in'	Cum Len (ft)
78I DAILY HY Max Open Ho BOTTOM Jts MUD USA CONSUM	MB) O 'DRAULIC DIE AV (fl/min) HOLE AS AGE	SPP (psi) S Max SSEMBLY	Casing AV (f/min	n) Bit	Jet Velocity (ft/s) OD (in) cription	Bit	Pressure Drop (psi)	Bit Hydra	Len Consume Consumed	HP/Area (hp/in'	On Loc
78i DAILY HY Max Open Ho BOTTOM Jts MUD USA	MB) O 'DRAULIC DIE AV (fl/min) HOLE AS AGE	SPP (psi) S Max SSEMBLY	Wei	n) Bit	Jet Velocity (ft/s) OD (in) cription	Bit	Pressure Drop (psi)	Bit Hydra Top Thread	Consumed Comment	HP/Area (hp/in'	On Loc
DAILY HY Max Open Ho BOTTOM Jts MUD USA CONSUM SAFETY (Date	HOLE AS AGE IABLES	SPP (psi) SSEMBLY Item I	Casing AV (f/min	n) Bit	Jet Velocity (ft/s) OD (in) cription Description	Bit	Pressure Drop (psi)	Bit Hydra Top Thread	Consumed Comment	(ft) (cur	On Loc



Report Date: 1/30/2007 AFE#: 05-6558

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000 Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation: Drilling Hours (hrs):

Rig Name/No: 51 Lease: ML-11124 County: Uintah State: Utah

Depth End (ftKB): 780.0 Depth End (TVD) (ftKB): Depth Progress (ft): 0.00
Average ROP (ft/hr):

CASING	PROGR	AM	ekstotot (#1570z.)		ede. m. c. comptentiti.	11 11.1
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

	r: 29.0			Days From	Spud (days):	-10.63				
1/29/2007 06:0	0 - 1/30/2007	06:00			1076	-F				
Operations at Repor MI&RU Patters					24h	r Forecast				
Remarks										
DAIL V CONTA	OTO .									
DAILY CONTA	CIS		Job (Contact				•	Position	
Trevor Murray			57-1-967 (267	88 - 15 S. S. S. S. WAN,			Rig Su	pervisor		
TIME LOG From HRS	(hrs) Code	Descri	otion	1			Description OP			
	12.00 01	Rig Up & T		MIRU PATTE	RSON RIG 51	- PATTERSOI	N RIG UP TRUC	KS RELEASE	O @ 14:30 PM	
18:00	12.00 39	Down Other		SHUT DOWN	FOR THE NIC	SHT				
		0								
COSTS Daily Cost Total	Cumulat		Total AF	E Amount	Total AFE Sup	Workin	ig Interest (%) 100.00	Daily Mud Cost	Cumulat	ive Mud Cost
14,921		254,291		626,000			100.00	<u> </u>		
MUD PROPER		FV (s/qt)	PV Overrid	le (cp) YP (lbf/100ft	') pH	Gel(10sec) (lbf/ Gel(10min) (lbf/	WL (mL/30min)	HTHP (mL/30mir	n) LCM
,			W (%)	Sd (%)	Chl (mg/L)	MBT (lb/bbl)	 Sol (%)	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf)
Filter Cake (/32") F	T (ML) PTD (M									
Avg Background Ga	s (%)	Avg	Connection	n Gas (%)	Avg	Drill Gas (%)		Avg Trip G	as (%)	
PUMP OPERA	TIONS									
	Light - Market			Model		Stroke (in)	Liner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk	Vol/Stk OR (bbl/stk)
No,	Mak	V ariani Editi i Tali		WIDGE		Ollono (III)	2, 500, 500, 500, 500, 500, 500, 500, 50			
PUMP CHECK	S									
No.	Mak	(0		Model		Pres (psi)	Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
DIT INCORMA	TION					•				
BIT INFORMA	HON			Total o						Total hours drilled by bit
Size (in)	Make		Туре	(fi) (all) (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)	Dull Out	IADC Codes	(hrs)
11 Air 7.825 Hyd	calog	Air PDC		i	20.00 37.9 34.00 59.2	1				113.00
DAILY DRILL	with the Allerthan	DMATION								
Bit Run Size (in	Make	Model	-46	Depth In (ftKB)	Depth Out (ftK 6,608.0		Nozzles (/32")	IADC Bit Dull	IADC	Codes
1 7.82		DSX!	ight on Bit (780.0 1000lbf) RPM (rpm		Illing Torque	PU HL (1000lbf)		DOIN Rot	HL (1000lbf)
Depth End (ftKB) 780	SPP (psi)	VVe	igiii on bii (TOOGIDI) KEWI (IPII	,, Di	ming rorque	TO THE (TOCOLOT)		,	
DAILY HYDRA	ULICS									
Max Open Hole AV	(ft/min) Ma	ax Casing AV (ft/mi	n)	Bit Jet Velocity (ft/	s) Bit	Pressure Drop (ps	i) Bit Hydra	aulic Power (hp)	HP/Area (hp/	in²)
воттом но	FACCEMEN	V DETAIL			1					
Jts Jts		Description		OD (in)		ID (in)	Top Thread	Len	(ft)	Cum Len (ft)
MUD USAGE				Description				Consume	ed	On Loc
			AVERTORE VITAL ES							
			[[] [[] [] [] [] [] [] [] [] [] [] [] []							
CONSUMABL	ES							S District of the second of th	····	.m On 1 on
CONSUMABL	ES		Supply Ite	em Description				Consumed	C	um On Loc
			Supply Ité	am Description				Consumed	C	um On Loc
CONSUMABL SAFETY CHE		Туре	Supply Ite		scription			Consumed Comment	C	um On Loc
SAFETY CHE		Type	Supply Ite			VS (ft)	NS (ft)	Comment	C C	um On Loc



Report Date: 1/29/2007 AFE#: 05-6558

Report Printed: 7/20/2007

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name: API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:

Rig Name/No: 51 Lease: ML-11124

Lease: ML-11124
County: Uintah
State: Utah
Depth End (ftKB): 780.0
Depth End (TVD) (ftKB):
Depth Progress (ft): 0.00
Average ROP (ft/hr):

.P.5000 245		17: 12: 18: 18: 18: 18: 18: 18: 18: 18: 18: 18	increasing a series	Ont Donth	Landa gradition of the second agranged	Dens
			Set Depth	Set Depth (TVD)		Fluid
ÖD (in)	Wt (lbs/ft)	Grade	(ftKB)	(ftKB)	Run Date	(lb/gai
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Report Nur					Days From Sp.		1.63				
1/28/2007 (29/200	7 06:00			24hr Fo	racast				
MI&RU Pat		g 51				24111 FO	recasi				
Remarks											
DAILY CO	NTACTS										
revor Muri	гау			Job C	Contact			Rig Su _l	pervisor	Position	
IME LOG											
	HRS. (hrs) 12.00	Code	Rig Up &	ription Tear	MIRU PATTERSO	N RIG #51 - N	MOVING TRUE	Description OP	FD AT 2:30PM		
			Down								
18:00	12.00	39	Other		SHUT DOWN FOR	R THE NIGHT					
COSTS Daily Cost Total	1	Cumul	ative Cost	Total AF	E Amount Total	AFE Sup	Working In	terest (%)	Daily Mud Cost	Cumulativ	e Mud Cost
15,5		Junian	239,370		626,000			00.00	Dates to the second		
MUD PROI			Inv.	Ibu o	() VD (ILEI 0063)	a.U	Gel(10sec) (lbf/	Col/10min\ /lbf/	WL (mL/30min)	HTHP (mL/30min)	I CM
^{lud Type} nhibited Vater Base	1 -	,70	FV (s/qt) 42	PV Override 14.0		рН 9.0	4.000	10.000	5.0	Tittle (III.200IIIII)	
ilter Cake (/32 2		Pm (m	0.0	W (%) 91.0		Chi (mg/L) 500	MBT (lb/bbl)	Sol (%) 9.0	Calcium (mg/L) 160.000	Mud Lost (Hole)	Mud Lost (Surf)
vg Backgroun	nd Gas (%)		A	vg Connection	Gas (%)	Avg Dri	l Gas (%)		Avg Trip Ga	s (%)	
PUMP OPE	FRATION	s	POSSES CUITOS CONTRACTOS CONTRACTOS								
No.			ake		Model	Str	oke (in) Li	ner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
140.			ano	**************************************							
PUMP CHE	ECKS										
No.		М	ake		Model	Pr	es (psi)	Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
BIT INFOR	MATION		3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7								
<u> </u>					Total depth drilled by bit	Avg ROP					Total hou drilled by
Size (in)	Air	Make	Air	Туре	(ft) 720.00	(all) (ft/hr) [epth in (ftKB) [60.0	Depth Out (ftKB)	Dull Out	IADC Codes	(hrs)
	Hycalog		PDC	>	6,684.00	1	780.0	6,608.0			113.
			ORMATION							1000	
	` '	lake Tycalog	Mode DS	el	Depth In (ftKB) C	epth Out (ftKB) 6,608.0	Avg ROP (No 51.6	zzies (/32")	IADC Bit Dull	IADC C	odes
Depth End (ftK	(B)	SPP (psi)		Veight on Bit (1	000lbf) RPM (rpm)	Drilling	Torque	PU HL (1000lbf)	SO HL (100	Olbf) Rot H	L (1000lbf)
780)										
DAILY HYI			fax Casing AV (ft/	min)	Bit Jet Velocity (ft/s)	Bit Pre:	ssure Drop (psi)	Bit Hydra	ulic Power (hp)	HP/Area (hp/in	l ²)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			railere dei Milos						DO OTO POSSO DE LA COMP	garijarijarijari	
BOTTOM I	HOLE AS		LY DETAIL m Description		OD (in)) ID (in)	Top Thread	Len (ft)	Cum Len (ft)
MUD USA	GE								Consume		On Loc
	Allert Mary				Description			<u>. Alberta ferskinn</u>	Gorisume		On Loc
CONSUM	ABLES										
1 1 1 1 1 1 1				Supply Ite	m Description				Consumed	Cur	n On Loc
				2 5 5 1 5 1							
SAFETY C Date	HECKS	- JSA	Туре		Description	n			Comment		
Survey Da	nta										
	O (ftKB)		Incl (°)	Azm (°)	TVD (fiKB)		VS (ft)	NS (ft)	EV	V (ft)	DLS (°/100ft)
		1_				l					



Report Date: 1/28/2007 AFE#: 05-6558

Report Printed: 7/20/2007

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name: API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:

Rig Name/No: 51 Lease: ML-11124

County: Uintah
State: Utah
Depth End (ftKB): 780.0
Depth End (TVD) (ftKB): Depth Progress (ft): 0.00
Average ROP (ft/hr):

	PROGRA					
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

18:00 12 COSTS Daily Cost Total 25,671 MUD PROPERTI Mud Type Inhibited Water Base	S	Rig Up & T Down Other Cost 23,854	Total AFE	MIRU PATTE SHUT DOWN Amount 526,000 (cp) YP (lbf/100) 11.00 Sd (%) 0.3	Total AFE Sup Total AFE Sup Total AFE Sup Chi (mg/l, 50	Gel(10sec 7 3.00	Rig S Description OF ting Interest (%) 100.00 (libi/ Gel(10min) (ii) 10.000 Sol (%) 8.0	Daily Mud Cost	HTHP (mL/30min) Mud Lost (Hole) is (%)	
MI&RU Patterson Remarks DAILY CONTACT Trevor Murray TIME LOG From HRS. (h D6:00 12. 18:00 12. 18:00 12. COSTS Daily Cost Total 25,671 MUD PROPERTI Mud Type Inhibited Water Base Filter Cake (/32") Pf (r Avg Background Gas (** PUMP OPERATI No. PUMP CHECKS No. BIT INFORMATION Size (in) 11 Air 7.825 Hycal	Rig 51 S S Code Oo O1 Oo 39 Cumulative 2 ES	Rig Up & T Down Other 23,854 (s/qt) 41	Total AFE 6 PV Override (14.0) W (%) 92.0	MIRU PATTE SHUT DOWN Amount 526,000 (cp) YP (lbf/100) 11.00 Sd (%) 0.3 Sas (%) Model	Total AFE Sup Total AFE Sup Total AFE Sup Chi (mg/l, 50	Gel(10sec 7 3.00) MBT (Ib/bb 0 Avg Drill Gas (%)	Description OF	Daily Mud Cost bf/ WL (mL/30min)	Cumulativ HTHP (mL/30min) Mud Lost (Hole) Is (%)	LCM Mud Lost (Surf) Vol/Stk OR
DAILY CONTACT Frevor Murray FIME LOG From HRS. (h D6:00 12 18:00 12 COSTS Daily Cost Total 25,671 MUD PROPERTI Mud Type Inhibited Water Base Filter Cake (/32") Pf (r Avg Background Gas (** PUMP OPERATI No. PUMP CHECKS No. BIT INFORMATIC Size (in) 11 Air 7.825 Hycal	s) Code 00 01 00 39 Cumulative 2 ES ((b/gal) FV 9.50 nL Pm (m O 6) DNS Make	Rig Up & T Down Other 23,854 (s/qt) 41	Total AFE 6 PV Override (14.0) W (%) 92.0	MIRU PATTE SHUT DOWN Amount 526,000 (cp) YP (lbf/100) 11.00 Sd (%) 0.3 Sas (%) Model	Total AFE Sup Total AFE Sup	Gel(10sec 7 3.00) MBT (Ib/bb 0 Avg Drill Gas (%)	Description OF	Daily Mud Cost bf/ WL (mL/30min)	Cumulativ HTHP (mL/30min) Mud Lost (Hole) Is (%)	LCM Mud Lost (Surf) Vol/Stk OR
Frevor Murray FIME LOG From HRS. (h D6:00 12 18:00 12 COSTS Daily Cost Total 25,671 MUD PROPERTI Mud Type Inhibited Water Base Filter Cake (/32") Pf (r Avg Background Gas (f PUMP OPERATI No. PUMP CHECKS No. BIT INFORMATIC Size (in) 11 Air 7.825 Hycal	s) Code 00 01 00 39 Cumulative 2 ES ((b/gal) FV 9.50 nL Pm (m O 6) DNS Make	Rig Up & T Down Other 23,854 (s/qt) 41	Total AFE 6 PV Override (14.0) W (%) 92.0	MIRU PATTE SHUT DOWN Amount 526,000 (cp) YP (lbf/100) 11.00 Sd (%) 0.3 Sas (%) Model	Total AFE Sup Total AFE Sup	Gel(10sec 7 3.00) MBT (Ib/bb 0 Avg Drill Gas (%)	Description OF	Daily Mud Cost bf/ WL (mL/30min)	Cumulativ HTHP (mL/30min) Mud Lost (Hole) Is (%)	LCM Mud Lost (Surf) Vol/Stk OR
FIME LOG From HRS. (h D6:00 12. 18:00 12. 18:00 12. COSTS Daily Cost Total 25,671 MUD PROPERTI Mud Type Inhibited Water Base Filter Cake (/32") Pf (r Avg Background Gas (** PUMP OPERATI No. PUMP CHECKS No. BIT INFORMATION 311 Air 7.825 Hycal DAILY DRILL ST	00 01 00 39 Cumulative 22 ES ((lb/gal) FV 9.50 nL Pm (m O 6) DNS Make Make	Rig Up & T Down Other 23,854 (s/qt) 41	Total AFE 6 PV Override (14.0) W (%) 92.0	MIRU PATTE SHUT DOWN Amount 526,000 (cp) YP (lbf/100) 11.00 Sd (%) 0.3 Sas (%) Model	Total AFE Sup Total AFE Sup	Gel(10sec 7 3.00) MBT (Ib/bb 0 Avg Drill Gas (%)	Description OF	Daily Mud Cost bf/ WL (mL/30min)	Cumulativ HTHP (mL/30min) Mud Lost (Hole) Is (%)	LCM Mud Lost (Surf) Vol/Stk OR
From HRS. (h D6:00 12 18:00 12 COSTS Daily Cost Total 25,671 MUD PROPERTI Mud Type Inhibited Water Base Filter Cake (/32") Pf (r Avg Background Gas (** PUMP OPERATI No. PUMP CHECKS No. BIT INFORMATION Size (in) 11 Air 7.825 Hycal DAILY DRILL ST	00 01 00 39 Cumulative 22 ES ((lb/gal) FV 9.50 nL Pm (m O 6) DNS Make Make	Rig Up & T Down Other 23,854 (s/qt) 41	Total AFE 6	Amount 626,000 (cp) YP (lbf/100 11.00 Sd (%) 0.3 Gas (%) Model	Total AFE Sup Total AFE Sup	Gel(10sec 7 3.00) MBT (Ib/bb 0 Avg Drill Gas (%)	(ing Interest (%) 100.00 (ibif Gel(10min) (increase Gel(10mi	Daily Mud Cost bf/ WL (mL/30min)	HTHP (mL/30min) Mud Lost (Hole) is (%)	LCM Mud Lost (Surf) Vol/Stk OR
D6:00 12. 18:00 12. 18:00 12. COSTS Daily Cost Total 25,671 MUD PROPERTI MUD PROPERTI MUD PROPERTI MUD PROPERTI MUD PROPERTI MO Type MWW Noter Base Citter Cake (/32") Pf (r No: PUMP OPERATI No: PUMP CHECKS No. BIT INFORMATIC Size (in) 11 Air 7.825 Hycal DAILY DRILL ST	00 01 00 39 Cumulative 22 ES ((lb/gal) FV 9.50 nL Pm (m O 6) DNS Make Make	Rig Up & T Down Other 23,854 (s/qt) 41	Total AFE 6	Amount 626,000 (cp) YP (lbf/100 11.00 Sd (%) 0.3 Gas (%) Model	Total AFE Sup Total AFE Sup	Gel(10sec 7 3.00) MBT (Ib/bb 0 Avg Drill Gas (%)	(ing Interest (%) 100.00 (ibif Gel(10min) (increase Gel(10mi	Daily Mud Cost bf/ WL (mL/30min)	HTHP (mL/30min) Mud Lost (Hole) is (%)	LCM Mud Lost (Surf) Vol/Stk OR
COSTS Paily Cost Total 25,671 MUD PROPERTI Mud Type Inhibited Vater Base Silter Cake (/32") PUMP OPERATI No. PUMP CHECKS No. BIT INFORMATION Size (in) 11 Air 7.825 Hycal	Cumulative 2 ES ((b/gal) FV 9.50 COMB DNS Make	Other D Cost 23,854 ((s/qt) 41 (%) 0.0	Total AFE 6 PV Override (14.0) W (%) 92.0	Amount 326,000 (cp) YP (lbf/1001 11.00	Total AFE Sup f(*) pH 00 8. Chi (mg/l	Gel(10sec 7 3.00) MBT (lb/bb 0 Avg Drill Gas (%)	100.00 (ibif Gel(10min) (i)	WL (mL/30min) 6.1 Calcium (mg/L) 160.000 Avg Trip Ga	HTHP (mL/30min) Mud Lost (Hole) is (%)	LCM Mud Lost (Surf) Vol/Stk OR
COSTS Paily Cost Total 25,671 MUD PROPERTI	Cumulative 2 ES ((b/gal) FV 9.50 COMB DNS Make	Cost 23,854 ('(s/qt) 41 (%) 0.0	Total AFE 6 PV Override (14.0) W (%) 92.0	Amount 326,000 (cp) YP (lbf/1001 11.00	Total AFE Sup f(*) pH 00 8. Chi (mg/l	Gel(10sec 7 3.00) MBT (lb/bb 0 Avg Drill Gas (%)	100.00 (ibif Gel(10min) (i) 10.000 (bi) Sol (%) 8.0 Liner Size (in)	WL (mL/30min) 6.1 Calcium (mg/L) 160.000 Avg Trip Ga	HTHP (mL/30min) Mud Lost (Hole) is (%)	LCM Mud Lost (Surf) Vol/Stk OR
Avig Background Gas (** PUMP CHECKS No. BIT INFORMATION Size (in) 11 Air 7.825 Hycal	2 ES ((b/gal) FV 9.50 nL Pm (m O 6) DNS Make	23,854 '(s/qt) 41 (%) 0.0	PV Override (14.0 W (%) 92.0	(cp) YP (lbf/100) 11.00 Sd (%) 0.3 Sas (%) Model	ift ^a) pH DO 8.	Gel(10sec 7 3.00) MBT (lb/bb 0 Avg Drill Gas (%) Stroke (in)	100.00 (ibif Gel(10min) (i) 10.000 (bi) Sol (%) 8.0 Liner Size (in)	WL (mL/30min) 6.1 Calcium (mg/L) 160.000 Avg Trip Ga	HTHP (mL/30min) Mud Lost (Hole) is (%)	LCM Mud Lost (Surf) Vol/Stk OR
MUD PROPERTI Aud Type MWW Auter Base iller Cake (/32") Pf (r Avg Background Gas (** PUMP OPERATI No. PUMP CHECKS No. BIT INFORMATION Size (in) 11 Air 7.825 Hycal DAILY DRILL ST	ES (lb/gal) FV 9.50 IL Pm (m O 6) Make	(%) 0.0	PV Override (14.0 W (%) 92.0	(cp) YP (lbf/100) 11.00 Sd (%) 0.3 Sas (%)	Chi (mg/L	7 3.00) MBT (lb/bb O Avg Drill Gas (%) Stroke (in)	(lbf/ Gel(10min) (l) 10.000 Sol (%) 8.0	Calcium (mg/L) 160.000 Avg Trip Ga P (max) (psi)	Mud Lost (Hole) IS (%) Vol/Sik (bbl/stk)	Mud Lost (Surf)
Mud Type nhibited Nater Base Filter Cake (/32") Avg Background Gas (* PUMP OPERATI No. PUMP CHECKS No. BIT INFORMATIC Size (in) 11 Air 7.825 Hycal DAILY DRILL ST	((b/gai) FV 9.50 FV 9.50 FV ONS Make	41 (%) 0.0	14.0 W (%) 92.0	11.00 Sd (%) 0.3 Gas (%)	Chi (mg/L	7 3.00) MBT (lb/bb O Avg Drill Gas (%) Stroke (in)	Sol (%) 8.0 Liner Size (in)	Calcium (mg/L) 160.000 Avg Trip Ga P (max) (psi)	Mud Lost (Hole) IS (%) Vol/Sik (bbl/stk)	Mud Lost (Surf)
Avg Background Gas (** PUMP OPERATION No. ** PUMP CHECKS No. ** BIT INFORMATION 11 Air 7.825 Hycal DAILY DRILL ST	DNS Make	(%)	W (%) 92.0	Sd (%) 0.3 Gas (%) Model	Chi (mg/L	MBT (Ib/bt) O Avg Drill Gas (%) Stroke (in)	Sol (%) 8.0 Liner Size (in)	Calcium (mg/L) 160.000 Avg Trip Ga P (max) (psi)	s (%)	Vol/Stk OR
PUMP OPERATION No. PUMP CHECKS No. BIT INFORMATION 11 Air 7.825 Hycal	ONS Make Make	0.0	92.0	0.3 Gas (%) Model	50	O Avg Drill Gas (%) Stroke (in)	8.0 Liner Size (in)	Avg Trip Ga	s (%)	Vol/Stk OR
PUMP OPERATION No. PUMP CHECKS No. BIT INFORMATION Size (in) 11 Air 7.825 Hycal DAILY DRILL ST	ONS Make Make	Avg	Connection G	Model		Stroke (in)	Slow Spd.	P (max) (psi)	Vol/Stk (bbl/stk)	
NG PUMP CHECKS NO. BIT INFORMATION Size (in) 11 Air 7.825 Hycal	Make Make						Slow Spd.			
NG PUMP CHECKS NO. BIT INFORMATION Size (in) 11 Air 7.825 Hycal	Make Make						Slow Spd.			
PUMP CHECKS No. BIT INFORMATION Size (in) 11 Air 7.825 Hycal DAILY DRILL ST)N			Model		Pres (psi)		Strokes (spm)		
Size (in) 11 Air 7.825 Hycal)N			Model		Pres (psi)		Strokes (spm)		
Size (in) 11 Air 7.825 Hycal)N					****			Eff (%)	Q (gpm)
Size (in) 11 Air 7.825 Hycal					La suit Processi	1,5,75,9700,56789,7884,755,083,75,454	No			mande ger i i.
11 Air 7.825 Hycal DAILY DRILL ST	Make			Total	l depth	1				Total hou
11 Air 7.825 Hycal DAILY DRILL ST			Type	drilled	d by bit Avg R((ft) (all) (ft/	P ਸ) Depth in (ffKE	B) Depth Out (ftKB) Dull Out	IADC Codes	drilled by (hrs)
DAILY DRILL ST		Air PDC			20.00 3		0.0 780.	1		19. 113.
		:			,04.00 5	/.z / 00	7.0 0,000.			
	Make Hycalog	Model DSX	E16	Depth In (ftKB) 780.0	Depth Out 6,60		(Nozzles (/32")	IADC Bit Dull	IADC C	odes
1 7.825 Depth End (ftKB)	SPP (psi)		eight on Bit (10			Drilling Torque	PÜ HL (1000lb	f) SO HL (100	DOIbf) Rot H	IL (1000lbf)
780	O (po.,							reselvets en en en en en		
DAILY HYDRAU Max Open Hole AV (ft/	ICS	Casing AV (ft/mi	in\	Bit Jet Velocity (ft		Bit Pressure Drop (draulic Power (hp)	HP/Area (hp/ir) 2)
nax Open Hote Av (no	ini) wax	Dasing Av (totti		Dit out voicoity (in				71(FS7;18-36-51-70-78(78)	88397 SEC 1 (Sec 10 10 10 10 10 10 10 10 10 10 10 10 10	**************************************
BOTTOM HOLE		DETAIL escription		OD (in)		ID (in)	Top Thread	Len	(ft)	Cum Len (ft)
Jis .	Kemp	osurpuon .								
MUD USAGE				Description				Consume	d I	On Loc
		ni ni un degarativa	SINSK NYKAKAKA	pescription .					Sangara	
CONSUMABLES			Supply Hors	ı Dèscription	100			Consumed	Cui	m On Loc
	11 (Sept. protection 12	ani a fawanyin	Supply item	Description						
SAFETY CHECK								Comment		
Date		Туре		De	escription			Confinent		
Survey Data MD (ftKB)		nci (°)	Azm (°)	מעד	(ftKB)	VS (ft)	NS (f	ft) E	W (ft)	DLS (*/100ft)



Report Date: 1/27/2007 AFE#: 05-6558

Cost Type:

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00 Target Formation:

Rig Name/No: 51 Lease: ML-11124

County: Uintah
State: Utah
Depth End (ftKB): 780.0 Depth End (TVD) (ftKB): Depth Progress (ft): 0.00
Average ROP (ft/hr):

CASING	PROGRA	₹M		Hally Holling		
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (Ib/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Drilling Ho Report Nu							ays From Sp		-13.63					
1/26/2007	06:00	- 1/27/	2007 (6:00				1046		naik				
Operations at MI&RU Pa			1					24n	Forecast					
Remarks											m*************************************	EQ. 1911 - 1		
DAILY CO	NTACT	rs						64,					Danillan	
Trevor Mu	rray	<u>BEARLY</u>			Job	Contact				10,022.2	Rig Sur	pervisor	Position	
TIME LOG			fiction (
From 06:00	HRS. (h	rs) .00 01	Code	Rig Up 8	cription Tear	MIR	J PATTERSO	ON RIG 51		1900 n.i.s	Description OP			<u> </u>
18:00	12	.00 39)	Down Other		SHU	T DOWN FO	R THE NIG	НТ				A. 11- 11-	
COSTS														
Daily Cost Tol	tal ,671	C	umulativ	re Cost 198,183	Total A	E Amou 626,0		al AFE Sup	Work		terest (%) 00.00	Daily Mud Cost	Cumulat	ive Mud Cost
MUD PRO		FS								S. H.				
Mud Type		(lb/gal)	F	V (s/qt)	PV Overri	de (cp)	YP (lbf/100ft²)	pН	Gel(10sec)	(lbf/	. Gel(10min) (lbf/.	WL (mL/30min)	HTHP (mL/30mir	n) LCM
Filter Cake (/3	32") Pf (ı	mL Pr	n (m C	(%)	W (%)		Sd (%)	Chl (mg/L)	MBT (lb/bb	i)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole).	Mud Lost (Surf)
Avg Backgrou	und Gas (%)		/	vg Connectio	n Gas (%)	Avg	Drill Gas (%)			Avg Trip G	as (%)	
DUMP OF	SEDATI	ONE								411.5				27 27
PUMP OP	ERAII	UNS	Make				Model		Stroke (in)	Li	ner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk	Vol/Stk OR) (bbl/stk)
110.	Ĺ		INGINE		2.00	Sign governing								
PUMP CH	IECKS		Make			Adini.	Model		Pres (psi)		Slow Spd	Strokes (spm)	Eff (%)	Q (gpm)
110.			INGIN			81188011191			7		No			
BIT INFO	RMATI	ON					Total dept	· 1	î					Total hours
Size (in)		M	ake		Туре		drilled by bi		Depth in (ftKB) [Depth Out (ftKB)	Dull Out	IADC Codes	drilled by bit (hrs)
11	1 Air			Air PD			720.0 6,684.0	1	60 780	1	780.0 6,608.0			19.00 113.00
	5 Hycai		INFO				0,004.0	00.2	700		0,000.0			
Bit Run Si	ize (in)	Make	•	RMATION Mod	lel X516	Der	oth In (ftKB) 780.0	Depth Out (ftKl		No	ozzles (/32")	IADC Bit Dull	IADC	Codes
1 Depth End (ft	7.825 KB)		(psi)			1000lbf)	RPM (rpm)		ling Torque		PU HL (1000lbf)	SO HL (10	000lbf) Rot	HL (1000lbf)
78					w	ug Allahanda				wig n.v.		SUSSESSO DE PERSONA		Alexander Mindeller ger
DAILY HY Max Open Ho			Max	Casing AV (fi	/min)	Bit Je	t Velocity (ft/s)	Bit	Pressure Drop (p	si)	Bit Hydra	ulic Power (hp)	HP/Area (hp/	in²)
			il 19 100 283		**************************************		rots was sales in the					sasays its olar		and a second
BOTTOM Jts	HOLE	ASSE		DETAIL Description			OD (in)		ID (in)		Top Thread	Ler	(ft)	Cum Len (ft)
		8000						100 Mg 164 164 165 165 165 165 165 165 165 165 165 165	SCOUNCERSON			Daya Saren - 1995	· · · · · · · · · · · · · · · · · · ·	akrejenskeg (* c
MUD USA	AGE					Descri	ption	entri i				Consum	ed	On Loc
				Tipone and a	-91 - 410 - 1470	V. 100							68 Thrus 24 Thrus 25	
CONSUM	IABLE:	S			Supply It	em Desc	ription					Consumed	C	um On Loc
						J. C. C. L. 1947		20 Sept. 1823				,		
SAFETY	CHECK	(S - J	SA	Туре			Descript	ion				Comment		
						acceptate vitor		12,755 - 026,760		a. gra				
Survey D)ata IID (fiKB)			Incl (°)	Azm (°)		TVD (ftKB)	VS (fl)		NS (ft)		EW (ft)	DLS (*/100ft)
								L_			<u></u>			, , , , , , , , , , , , , , , , , , ,



Report Date: 1/26/2007 AFE#: 05-6558

Report Printed: 7/20/2007

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:

Rig Name/No: 51 Lease: ML-11124 County: Uintah
State: Utah
Depth End (ftKB): 780.0

Depth End (TVD) (ftKB):
Depth Progress (ft): 0.00
Average ROP (ft/hr):

CASING	PROGR/	AM .				
OD (in)	Wt (ibs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (ib/gal)
14	36.75		60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

	ımber: 25	: 5.0		Days Fro	om Spud (days):	-14.63				
	06:00 - 1/2	26/2007 0	6:00		124b-	Formani				
Operations at VII&RU Pa Remarks	tterson Rig	g 51			24111	Forecast				
emarks			A		alian ka Para dan keperadan pelangan ke dan mereb			THE STREET STREET	TS 134 W	enner (e. y fragginger een
DAILY CO	NTACTS									
revor Mui	ггау	315		Job Contact			Rig S	upervisor	Position	gan, Albadi untur istini.
IME LOG										
From 06:00	HRS. (hrs) 12.00	Code 01	Rig Up & Tea		TERSON RIG 51		Description OP			
8:00	12.00	39	Down Other	SHUT DOV	VN FOR THE NIGI	- 				
COSTS										
aily Cost Tot	tal ,671	Cumulativ	e Cost 172,512	Total AFE Amount 626,000	Total AFE Sup	Working In	terest (%) 100.00	Daily Mud Cost	Cumulative	Mud Cost
	PERTIES		172,012							
Mud Type	MW (lb/g		V (s/qt) PV	Override (cp) YP (lbf/10	DOft²) pH	Gel(10sec) (lbf/.	Gel(10min) (It	of/ WL (mL/30min)	HTHP (mL/30min)	.CM
ilter Cake (/3	32") Pf (mL	Pm (m O	(%) W	(%) Sd (%)	Chl (mg/L)	MBT (lb/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf)
vg Backgrou	ind Gas (%)	<u> </u>	Avg Co	nnection Gas (%)	Avg	Drill Gas (%)	1	Avg Trip Ga	s (%)	
		Zarosan Karpiyêy								
	ERATION			Model		Otenko (le)	iner Size (in)	P (max) (pši)	Vol/Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
No.		Make	Lighten (1.11 mag 6.5. da et fin)	Model)	Stroke (in) Li	illet Size (iti)	r (max) (par)	YOUGIK (DOUGIK)	
UMP CH	ECKS						al in a		Eff (%)	Q (gpm)
No.		Make		Model		Pres (psi)	Slow Spd No	Strokes (spm)	En (xe)	w (gpin)
BIT INFO	RMATION									
				dril	tal depth led by bit Avg ROP (ft) (all) (ft/hr)	Danie in (61/D)	Danie Olavavov	Dull Out	IADC Codes	Total hours drilled by b (hrs)
	Air	Make	Air	Туре	720.00 37.9	60.0	Depth Out (ftKB) 780.0			19.0
	Hycalog	- 1981/97 . 11 - 118 111 77 .	PDC	6	,684.00 59.2	780.0	6,608.0	<u> </u>	 1. Dahil kepital 1	113.0
DAILY DR Bit Run Si	RILL STRII	NG INFOI lake	RMATION Model	Depth In (ftK	B) Depth Out (ftKB	Avg ROP (No	ozzles (/32")	IADC Bit Dull	IADC Co	des
	()									(1000lbf)
			la l	80 // 000 IDBM /	\ Deitt	as Torque	TRULL (1000)FE		Olbo Bot HI	
Pepth End (fti		SPP (psi)	Weight	on Bit (1000lbf) RPM (rpm) Drilli	ng Torque	PU HL (1000lbf) SO HL (100	Olbf) Rot HL	
DAILY HY	KB) S	s .								
DAILY HY	KB) S	s .		on Bit (1000lbf) RPM (ng Torque		SO HL (100	Olbf) Rot HL HP/Area (hp/in²)	
DAILY HY Max Open Ho	KB) S	S Max	Casing AV (ft/min)	Bit Jet Velocity	(ff/s) Bit F	ressure Drop (psi)	Bit Hyd	Iraulic Power (hp)	HP/Area (hp/in²)	
DAILY HY Max Open Ho	YDRAULIC	S Max	Casing AV (ft/min)	Bit Jet Velocity	(ff/s) Bit F				HP/Area (hp/in²)	
DAILY HY fax Open Ho BOTTOM Jts	(DRAULIC Die AV (ft/min)	S Max	Casing AV (ft/min)	Bit Jet Velocity	(ff/s) Bit F	ressure Drop (psi)	Bit Hyd	fraulic Power (hp)	HP/Area (hp/in²)	um Len (ft)
DAILY HY Max Open Ho BOTTOM Jts	(DRAULIC Die AV (ft/min)	S Max	Casing AV (ft/min)	Bit Jet Velocity	(ff/s) Bit F	ressure Drop (psi)	Bit Hyd	Iraulic Power (hp)	HP/Area (hp/in²)	
DAILY HY Max Open Ho BOTTOM Jts	KB) S 'DRAULIC Ile AV (ft/min) HOLE AS	S Max	Casing AV (ft/min) DETAIL Description	Bit Jet Velocity OD ((ff/s) Bit F	ressure Drop (psi)	Bit Hyc	fraulic Power (hp) Len (HP/Area (hp/in²)	um Len (ft)
DAILY HY flax Open Ho BOTTOM Jts	KB) S 'DRAULIC Ile AV (ft/min) HOLE AS	S Max	Casing AV (ft/min) DETAIL Description	Bit Jet Velocity	(ff/s) Bit F	ressure Drop (psi)	Bit Hyd	fraulic Power (hp) Len (HP/Area (hp/in²)	um Len (ft)
DAILY HY lax Open Ho BOTTOM Jts MUD USA CONSUM	KB) S 'DRAULIC Ile AV (ft/min) HOLE AS	SEMBLY Item I	Casing AV (ft/min) DETAIL Description	Bit Jet Velocity OD (I	(ff/s) Bit F	ressure Drop (psi)	Bit Hyc	Len (Consumed	HP/Area (hp/in²)	um Len (ft)
DAILY HY Max Open Ho BOTTOM Jts MUD USA CONSUM	PDRAULIC DIE AV (ft/min) HOLE AS AGE	SEMBLY Item I	Casing AV (ft/min) DETAIL Description	Bit Jet Velocity OD (I	(ff/s) Bit F	ressure Drop (psi)	Bit Hyc	fraulic Power (hp) Len (HP/Area (hp/in²)	um Len (ft)
MUD USA CONSUM SAFETY (Date	PDRAULIC DIE AV (ft/min) HOLE AS AGE CHECKS	SEMBLY Item D	Casing AV (ft/min) DETAIL Description Signature of the state of the	Bit Jet Velocity OD (I	(ff/s) Bit F	ressure Drop (psi)	Bit Hyc	traulic Power (hp) Len (Consumed	HP/Area (hp/in²)	um Len (ft)



Report Date: 1/25/2007 AFE#: 05-6558

Report Printed: 7/20/2007

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:
Drilling Hours (hrs):

Rig Name/No: 51 Lease: ML-11124

County: Uintah
State: Utah
Depth End (ftKB): 780.0
Depth End (TVD) (ftKB): Depth Progress (ft): 0.00 Average ROP (ft/hr):

1467	PROGR		2. Patricipals at on-	Set Depth	71. TV 79.11 1 1 1 2 4 2 2 1 1 1 1	Dens
	Taxibyir	Mulles	Set Depth	(TVD)		Fluid
OD (in)	Wt (lbs/ft)	Grade	(ftKB)	(ftKB)	Run Date	(lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Report		er: 24						ys From Spu		-15.63						
1/24/200 Operations Rigging Remarks	at Repo	rt Time		06:00					24h	Forecast						
DAILY (. :	CTS				Job C	Contact					Pia Su	pervisor	Position		
Trevor N			Design Fil									Rig Su	pervisor			
TIME LO		. (hrs)	Code		Descrip	tion						Description OP				
06:00		12.00	01	Rig Dow	Up & Te m	ear	RIGGI	ING DOWN I	PATTERS	ON #51 TO	MO\	VE				
18:00		12.00	39	Othe			SHUT	DOWN FOR	THE NIG	HT	. 20, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1		reagness sylver its	e service estimate		VE 18 8 8 8 1
COSTS Daily Cost	Total 25,671		Cumula	ative Cost 146,84	i1	Total AF	E Amount 626,00		AFE Sup	Wo		nterest (%) 100.00	Daily Mud Cost		Cumulative	Mud Cost
MUD PI		TIFS														
Mud Type		MW (lb/g	gal)	FV (s/qt)		PV Overrid	e (cp) Yi	P (lbf/100ft²)	рH	Gel(10se	ec) (lbf/	Gel(10min) (lbf	/ WL (mL/30mi	n) HTHP	(mL/30min) L	СМ
Filter Cake	(/32")	Pf (mL	Pm (m	0 (%)		W (%)	Sc	d (%)	Chl (mg/L)	MBT (lb/	bbl)	Sol (%)	Calcium (mg/	L) Mud L	ost (Hole)	Mud Lost (Surf)
Avg Backg	round G	as (%)			Avg	Connection	Gas (%)		Avç	Drill Gas (%)			Avg Trip	Gas (%)		
		10 10 Laste	<u>. Ediji</u> s								Mala					
PUMP (OPER	ATION		ake				Model		Stroke (in)] [Liner Size (in)	P (max) (psi)	Vol/8	Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
PUMP (CHEC	(S								Desc (cell)		Clau Cod	Strokes (spm)	· F#	(%)	Q (gpm)
No.			Ma	ake			S	Model		Pres (psi)		Slow Spd No	Suokes (spin)		(76)	Q (gpiii)
BIT INF	ORMA	TION	i sacarati													Total hours
								Total depth drilled by bit (ft)	Avg ROP (all) (ft/hr)	Depth in (fil	<u></u>	Depth Out (ftKB)	Dull Out	IAI	OC Codes	drilled by bit (hrs)
Size (ir	18 Bu	cket	Make		Bucke	Type :	<u> </u>	60.00	10.0		0.0	60.0			70 000037. <u></u>	6.00
	11 Aiı	E. Tak	The street	1. 11. 17 March	Air		TVSAC SE	720.00	37.9		50.0	780.0				19.00
DAILY Bit Run	Size (ir	STRII	NG INF	ORMAT	Modei		Depth	h in (ftKB)	epth Out (ftK	B) Avg ROI) (N	Nozzies (/32")	IADC Bit Dull		IADC Cod	des
Depth End	(ftKB)	5	SPP (psi)		Wei	ght on Bit (*	1000lbf)	RPM (rpm)	Dri	ling Torque		PU HL (1000lbf)	SO HL (1000lbf)	Rot HL	(1000lbf)
DAILY Max Oper				lax Casing	AV (ft/mir	1)	Bit Jet \	Velocity (ft/s)	Bit	Pressure Drop	(psi)	Bit Hydro	aulic Power (hp)	HF	⁹ /Area (hp/in²)	
BOTTO	м но	LE AS		LY DET				OD (in)		ID (in)		Top Thread	E L	en (ft)	C	um Len (ft)
MUD U	CACE					nys Ofers Halipags										
MODO	SAGE	1,1, 1-1,2, 11,11,1,11,2,11,2,11,2,11,2,11,2,		,:::::::::::::::::::::::::::::::::::::			Descripti	ion					Const	imed		On Loc
CONSI	JMAB	ES.				Supply Ite	m Descrip	otion					Consumed		Cum	On Loc
SAFET		скѕ	- JSA					Descriptio		1			Commé	nt		
Da				Туре	. 6. 179 100 (2	leze en 2018		резстрас			i ang were desired				No. of the last of	*** *** **
Survey	Data MD (ft	(B)		Incl (°)	1 se 112. 3 se 187	Azm (°)		TVD (ftKB)		VS (ft)		NS (ft)	<u> </u>	EW (ft)		DLS (°/100ft)
					1		1									



Report Date: 1/13/2007 AFE#: 05-6558 **Cost Type:**

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:

Rig Name/No: 51 Lease: ML-11124

County: Uintah
State: Utah
Depth End (ftKB): 780.0
Depth End (TVD) (ftKB):
Depth Progress (ft): 0.00

CASING	PROGR	AM				
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75		60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Drilling Ho Report Nu							verage ROP ays From S _I		;): -27	7.63							
1/12/2007			7 06:00	42.34									V. 9-5	7.0			
Operations at I Install well		•						1	4hr Fore	ecast vement							
Remarks																	
DAILY CO	NTACTS																
Trevor Mur	rray				Job C	ontact						Rig Sup	ervisor		Position		
TIME LOG																	
From 06:00	HRS. (hrs) 2.00	Code	• Oth	Descri Per	iption	No n	novement				<u> </u>	escription OP		Butt.Sh			<u> </u>
08:00	8.00		Oth Oth				ıll wellhead o	ollar									
16:00 06:00	14.00 0.00		Oth				is complete	and ready	for d	rilling rig.							
COSTS						18 / C											
Daily Cost Tot 4,7	al 766	Cumul	ative Cost 121,1		Total AFI	E Amou 626,0		tal AFE Sup		Working		rest (%))0.00	Daily Mud Co	st	Cumu	ilative Mu	ud Cost
MUD PRO	PERTIES	3						e in									
Mud Type	MW (Ib		FV (s/qt)	PV Override	e (cp)	YP (lbf/100ft²)	pН		Gel(10sec) (II	bf/	Gel(10min) (lbf/.	. WL (mL/30)min)	HTHP (mL/30	min) LCI	4
Filter Cake (/3	2") Pf (mL.	Pm (m	. O (%)		W (%)		Sd (%)	Chl (mg/L)		MBT (lb/bbl)		Sol (%)	Calcium (m	ng/L)	Mud Lost (Hol	e) Mu	d Lost (Surf)
Avg Backgrou	nd Gas (%)		l. <u>.</u>	Avg	Connection	Gas (%	o)		Avg Drill	Gas (%)	-	I	Avg T	rip Gas	(%)		
DUMP OD	EDATIO	ie.		Pyrone		Karana Karana									\$30 X 178		
PUMP OP	ERATIO	History	ake				Model	3096	Stro	oke (in)	Line	er Size (in)	P (max) (ps	in.	Vol/Stk (bbl/	stk)	Vol/Stk OR (bbl/stk)
110.			ano					e 31.46 (2012/2013)						- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
PUMP CH	ECKS		ake				Model	7	Dre	es (psi)	- 6	low Spd	Strokes (spm	Y -	Eff (%)		Q (gpm)
No.		11) . T. 111 . IV.	axe				Model			is (psi)	200 G Y	No	Olyokoo (opiii		(/,		
BIT INFOR	RMATION						Total dept	L 1			1						Total hours
Dina (In)		Make			Туре		drilled by t			epth in (ffKB)	De	epth Out (ftKB)	Dull Out		IADC Code	es	drilled by bit (hrs)
	Bucket	IVIANE		Bucke			60.0	00 10	0.0	0.0)	60.0		-	-	<u> </u>	6.00 19.00
	Air		ONE TO	Air		Allen.	720.0	00 37	.9	60.0	<u>'</u>	780.0 -					19.00
DAILY DR Bit Run Si		ING INF Make	ORMA	Model		Dep	oth in (ftKB)	Depth Out (tKB)	Avg ROP (Noz	zies (/32")	IADC Bit Do	<u>ы</u> в Ш	IAC	C Codes	5
						00011-0	- IDDM (mm)		Drilling 1	ļ		U HL (1000lbf)	leo n	L (1000	ubt D	tot HL (10	noniba
Depth End (ft)	KB)	SPP (psi)		VVE	eight on Bit (1	OUUIDI)	RPM (rpm)		Drilling 1	rorque		O FIL (1000ibi)	3011	E (1000			7001017
DAILY HY	DRAULI	cs										Ditti	ila Dawa /ha		HP/Area (I	bo(in1)	
Max Open Ho	te AV (ft/mir	1)	Max Casin	g AV (ft/m	in)	Bit Jei	t Velocity (ft/s)		Bit Pres	sure Drop (psi)	DIL HYDIA	ulic Power (hp	<i>)</i>	TIF /Alea (I	1 0 7111 7	
воттом	HOLE A																
Jts		lte	m Descrip	tion			OD (in)		i ID (ir	n)		Top Thread		Len (ft)	Cum	Len (ft)
MUD USA	\GE																
		1.853		100		Descrip	otion				Segg-		Cor	sumed	shiri sisisi	On	1 Loc
CONSUM	ABLES																
					Supply Iter	m Descr	ription	71 TX 31 K I					Consumed	<u> Karaja</u>		Cum Or	i Loc
SAFETY (CHECKS	- JSA															
Date			Туре			3131812	Descrip	otion			11/42		Comn	nent		<u> Talana</u>	
Survey D	ata						TO ID INVE	2		\/C /B\		NS (ft)	1	ΕW	/ (ft)	Di	S (°/100ft)
М	ID (ftKB)		Incl (°)	Azm (°)		TVD (fike	7/30/2006/2011		VS (ft)	281.	NO (II)					- 11.53.7



Report Date: 1/12/2007 AFE#: 05-6558

Report Printed: 7/20/2007

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation: Drilling Hours (hrs): Rig Name/No: 51 Lease: ML-11124

County: Uintah
State: Utah
Depth End (ftKB): 780.0
Depth End (TVD) (ftKB):
Depth Progress (ft): 0.00 Average ROP (ft/hr):

	PROGRA		A	5 . 5		
				Set Depth		Dens Fluid
			Set Depth	(ftKB)		(ib/gal)
OD (in)	Wt (lbs/ft)	Grade	(IIIND)	(IIIXD)	Run Date	(ibigai)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	.1-55	780		1/4/2007	

Report Nur	mber: 22.0)			Days From	Spud (days)	-28.63				
perations at R	06:00 - 1/12 Report Time ank to be ha		:00:			1	hr Forecast stall wellhead, I	nave frac tank h	auled off		
DAILY CON	NTACTS			Job Con	act					Position	
revor Murr	ray	***************************************		300 001	iaci			Rig Su	ıpervisor	ALCONON	
IME LOG								D			
From 06:00 12:00	6.00 39 6.00 39		Other Other	H		uck with a hot		Description OP		181124-1914-1915-1914-1914-1914-1914-1914-191	<u> </u>
18:00	12.00 39	9	Other		lo Movement	into reserve p	ЛL	M-12-77-2			
COSTS Daily Cost Tota 73		Cumulative		Total AFE A	mount 26,000	Total AFE Sup	Working	g Interest (%) 100.00	Daily Mud Cost	Cumulativ	e Mud Cost
MUD PROF			16,404	J 02	0,000		1	100.00			
Mud Type	MW (ib/gal)) FV	(s/qt)	PV Override (c	p) YP (lbf/100ft	P) pH	Gel(10sec) (II	of/ Gel(10min) (lbf	7 WL (mL/30min)	HTHP (mL/30min)	LCM
ilter Cake (/32	2") Pf (mL P	m (m O (%)	W (%)	Sd (%)	Chi (mg/L)	MBT (lb/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf)
Avg Backgroun	nd Gas (%)		Av	g Connection Ga	ıs (%)	Av	g Drill Gas (%)		Avg Trip Ga	as (%)	
e i sesse				is carried						7 - 1 V - V - V - V - V - V - V - V - V -	
PUMP OPE	ERATIONS										Vol/Stk OR
No		Make			Model		Stroke (in)	Liner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	(bbl/stk)
PUMP CHE	=CK8		167.6								
No.	-010	Make			Model		Pres (psi)	Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
					IVoi est est			140			
BIT INFOR	MATION				Total						Total hours
Size (in)		lake		Type	drilled (ft) (all) (ft/hr)	Depth in (ftKB)	Depth Out (ftKB)	Dull Out	IADC Codes	(hrs)
	Bucket Air		Buck Air	et	l l	0.00 10.0 0.00 37.9	1	i i			6.00 19.00
	LL STRING	INFOR	11/2/1/2017			1					
	e (in) Mak		Model	Elementary in a computer South	Depth In (ftKB)	Depth Out (ftl	(B) Avg ROP (Nozzles (/32")	IADC Bit Dull	IADC C	odes
Depth End (ftK	B) SPF	o (psi)	I	eight on Bit (100	Olbf) RPM (rpm) Di	rilling Torque	PU HL (1000lbf)	SO HL (100	OOIbf) Rot H	L (1000lbf)
		· · · · · · · · · · · · · · · · · · ·									
DAILY HYD	DRAULICS	l May C	asing AV (ft/n	oin) D	it Jet Velocity (fVs	.) IRI	t Pressure Drop (psi	Bit Hydr	aulic Power (hp)	HP/Area (hp/in	2)
мах Ореп поя	e Av (IVIIIII)	Iviax C	asing AV (IVII	IIII)	it set velocity (ive	,,	(r resoure brop (por	, Oktiva	adio i ovoi (i.p)		
	HOLE ASSI								122	(A)	C == 1 == (A)
Jts		Item De	scription	tiva emitelestri	OD (in)		ID (in)	Top Thread	Len	(II)	Cum Len (ft)
MUD USA	GE										
				De	scription				Consume	d	On Loc
00101114	151 FA	un Austrian Aging Cult Volja									
CONSUMA	ABLES			Supply Item D	escription .				Consumed	Cun	n On Loc
											Sala Sala
SAFETY C Date	HECKS - J		уре		Des	cription			Comment	gand notes (g. 17. Milionago gradus)	
Survivi Da						5.00 E543 (877)					
Survey Da	I ta D (fiKB)	ln ln	aci (°)	Azm (°)	TVD (ftKB)	VS (ff)	NS (ft)	E	W (ft)	DLS (*/100ft)



Report Date: 1/11/2007 AFE#: 05-6558 **Cost Type:**

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:
Drilling Hours (hrs):

Rig Name/No: 51 Lease: ML-11124 County: Uintah State: Utah

Depth End (ftKB): 780.0 Depth End (TVD) (ftKB): Depth Progress (ft): 0.00 Average ROP (ft/hr):

JASING	PROGRA	VINI :	No Large Weig			<u> </u>
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	Α	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Filter Cake (/32") Pf (m. Avg Background Gas (% PUMP OPERATIC	Code 0 39 0 39 0 39 0 39 0 material companies of the comp	Description Descri	Total AFE	No moveme Ordered wa nto reserve No Moveme Amount 26,000	ter truck plus pit, tank wa ent Total AFE S	s one los s frozen up	frac tank, instance t	Description OP or pit, to go out d not be drained	Daily Mud Cost		a Mud Cost
FIME LOG From HRS. (hrs.) 20:00 14.0 20:00 3.5 23:30 6.5 23:30 6.5 23:30 6.5 23:30 PROPERTIE Mud Type MW (Filter Cake (/32") Pf (m Avg Background Gas (% PUMP OPERATION No. PUMP CHECKS	Cumulativ S. Pm (m C	Other Other Other Other Other Other Avian	Total AFE 6	No moveme Ordered wa nto reserve No Moveme Amount 26,000	ter truck plus pit, tank wa ent Total AFE S DOM: PH	s one los s frozen up	ad of water foup and coul Working Gel(10sec) (lb	Rig Sur Description OP or pit, to go out d not be drained	and drain frac t	ank	
Frevor Murray FIME LOG From HRS. (hrs. 206:00 14.0) 20:00 3.5 23:30 6.5 COSTS Daily Cost Total 298 MUD PROPERTIE Mud Type MW (Filter Cake (/32") Pf (m Avg Background Gas (% PUMP OPERATION No. PUMP CHECKS	Code 0 39 0 39 0 39 Cumulativ S b/gal) F	Other Other Other Other Ve Cost 115,669 V (s/qt) O (%)	Total AFE 6	No moveme Ordered wa nto reserve No Moveme Amount 26,000	ter truck plus pit, tank wa ent Total AFE S DOM: PH	up	Working Gel(10sec) (lb	Description OP or pit, to go out d not be drained interest (%) 100.00	and drain frac t	ank	
D6:00 14.0 D6:00 3.5 D6:00	0 39 0 39 0 39 Cumulativ S b/gal) F	Other Other Other Other Ve Cost 115,669 V (s/qt) O (%)	Total AFE 6	No moveme Ordered wa nto reserve No Moveme Amount 26,000	ter truck plus pit, tank wa ent Total AFE S DOM: PH	up	Working Gel(10sec) (lb	Description OP or pit, to go out d not be drained interest (%) 100.00	and drain frac t	ank	
From HRS. (hrs.)6:00	0 39 0 39 0 39 Cumulativ S b/gal) F	Other Other Other Other Ve Cost 115,669 V (s/qt) O (%)	Total AFE 6	Ordered wa nto reserve No Moveme Amount 26,000	ter truck plus pit, tank wa ent Total AFE S DOM: PH	up	Working Gel(10sec) (lb	or pit, to go out d not be drained Interest (%) 100.00	Daily Mud Cost	Cumulative	
From HRS. (hrs.)6:00	0 39 0 39 0 39 Cumulativ S b/gal) F	Other Other Other Other Ve Cost 115,669 V (s/qt) O (%)	Total AFE 6	Ordered wa nto reserve No Moveme Amount 26,000	ter truck plus pit, tank wa ent Total AFE S DOM: PH	up	Working Gel(10sec) (lb	or pit, to go out d not be drained Interest (%) 100.00	Daily Mud Cost	Cumulative	
20:00 3.5 23:30 6.5 COSTS Daily Cost Total 298 MUD PROPERTIE Mud Type MW (Filter Cake (/32") Pf (m Avg Background Gas (% PUMP OPERATION No.	0 39 0 39 Cumulativ	Other Other Other Cost 115,669 V (s/qt) O (%)	Total AFE 6	Ordered wa nto reserve No Moveme Amount 26,000	ter truck plus pit, tank wa ent Total AFE S DOM: PH	up	Working Gel(10sec) (lb	Interest (%) 100.00	Daily Mud Cost	Cumulative	
COSTS Daily Cost Total 298 MUD PROPERTIE Mud Type MW (Filter Cake (/32") Pf (m Avg Background Gas (% PUMP OPERATIO No. PUMP CHECKS	Cumulativ S b/gal) F	ve Cost 115,669 V (s/qt)	Total AFE 6	Amount 26,000 (ср) YP (lbf/10	Total AFE S		Gel(10sec) (lb	100.00			
Daily Cost Total 298 MUD PROPERTIE Mud Type MW (illter Cake (/32") Pf (m Avg Background Gas (% PUMP OPERATIO No.	S	115,669 V (s/qt) D (%)	PV Override (26,000 (cp) YP (lbf/10 Sd (%)	OOft ³) pH		Gel(10sec) (lb	100.00			
MUD PROPERTIE Mud Type MW (iiter Cake (/32") Pf (m avg Background Gas (% PUMP OPERATIO No. PUMP CHECKS	S	V (s/qt)	PV Override ((cp) YP (lbf/10		g/L)	, ,		WL (mL/30min)	HTHP (mL/30min)	
Mud Type MW (ilter Cake (/32") Pf (m Avg Background Gas (% PUMP OPERATION No. PUMP CHECKS	b/gal) F Pm (m C) (%) Av	W (%)	Sd (%)		g/L)	, ,	f/ Gel(10min) (lbf/	WL (mL/30min)	HTHP (mL/30min)	1.014
PUMP OPERATION No. PUMP CHECKS	NS	Avı			Chl (m	g/L)					
PUMP OPERATION No. PUMP CHECKS	NS		g Connection G	as (%)	I		MBT (lb/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf)
No. PUMP CHECKS						Avg Dri	II Gas (%)		Avg Trip Ga	s (%)	
No. PUMP CHECKS											
	rgaler a Regress e	* ASK on Discharge Street		Model		Sti	oke (in)	Liner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
l l	Make			Model		Pr	es (psi)	Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
BIT INFORMATIC	N	32 Kiliya									
					tal depth led by bit Avg	ROP					Total hours drilled by bit
Size (in) 18 Bucke	Make	Buck	Type et				epth in (ftKB) 0.0	Depth Out (ftKB) 60.0	Dull Out	IADC Codes	(hrs) 6.0
11 Air		Air			720.00	37.9	60.0	780.0			19.00
DAILY DRILL STI Bit Run Size (in)	RING INFO	RMATION Model		Depth In (ftK	B) Depth C	ut (ftKB)	Avg ROP (Nozzies (/32")	IADC Bit Dull	IADC Co	odes
Depth End (ftKB)	SPP (psi)		eight on Bit (10	00lbf) RPM (rpm)	Drilling	Torque	PU HL (1000lbf)	 SO HL (100	Olbf) Rot Hi	_ (1000lbf)
			778 878 887 807 1 6 7 7 8 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9								
DAILY HYDRAUL Max Open Hole AV (ft/m		Casing AV (ft/m	nin)	Bit Jet Velocity	(ft/s)	Bit Pre	ssure Drop (psi)	Bit Hydra	aulic Power (hp)	HP/Area (hp/in	')
BOTTOM HOLE	SSEMBLY	/ DETAIL									
Jts	ltem	Description		OD (in)	ID (in)	Top Thread	Len		Cum Len (ft)
MUD USAGE				Description					Consume	d	On Loc
CONSUMABLES			Supply Item	Description	3,20				Consumed	Cun	n On Loc
CALETY CHECK	e lea										
SAFETY CHECK Date	J - JOA	Туре		334	Description				Comment		
Survey Data MD (RKB)		Inci (°)	Azm (°)	TN	/D (fiKB)		VS (ft)	NS (ft)	E	W (ft)	DLS (*/100ft)
			2.5								



Report Date: 1/10/2007 AFE#: 05-6558

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:

Rig Name/No: 51 Lease: ML-11124 County: Uintah State: Utah

Depth End (ftKB): 780.0 Depth End (TVD) (ftKB): Depth Progress (ft): 0.00 Average ROP (ft/hr):

CASING	PROGRA	AM :				
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Report Number: 20.0			Days From Sp		-30.63				
1/9/2007 06:00 - 1/10/2007 06:00 Operations at Report Time No Movement)				Forecast all wilhead		Periode de la Periode Periode de La Periode de Periode de la Periode de		
emarks			1.4 (1)						
DAILY CONTACTS		Job Conta	et .					Position	
revor Murray	n ilgani, juri					Rig Sı	upervisor		
COSTS aily Cost Total Cumulative Cost 115,3	71	Total AFE Am 626	ount Tot	al AFE Sup	Working In	nterest (%) 100.00	Daily Mud Cost	Cumula	tive Mud Cost
MUD PROPERTIES		V Override (cp)	YP (lbf/100ft²)	рН	Gel(10sec) (lbf/	Gel(10min) (lb	f/ WL (mL/30min)	HTHP (mL/30m	in) LCM
ilter Cake (/32") Pf (mL Pm (m O (%)	<u>v</u>	V (%)	Sd (%)	Chl (mg/L)	MBT (lb/bbi)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole)) Mud Lost (Surf)
vg Background Gas (%)	Avg C	onnection Gas	(%)	Avg I	Drill Gas (%)		Avg Trip Ga	as (%)	
PUMP OPERATIONS					-1				
No. Make			Model		Stroke (in) L	iner Size (in)	P (max) (psi)	Vol/Stk (bbl/st	Vol/Stk OR k) (bbl/stk)
					<u> </u>				
PUMP CHECKS No. Make			Model		Pres (psi)	Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
BIT INFORMATION									
			Total depth drilled by b (ft)		Depth in (ftKB)	Depth Out (ftKB)	Dull Out	IADC Codes	Total hours drilled by bit (hrs)
Size (in) Make 18 Bucket	Bucket	Туре	60.0 720.0	00 10.0	0.0 60.0	60.0 780.0			6.00 19.00
11 Air	Air	Taga Sala	720.0	JU 37.9	80.0	760.0			
DAILY DRILL STRING INFORMATI it Run Size (in) Make	Model	0	epth In (ftKB)	Depth Out (ftKB)	Avg ROP (N	ozzles (/32")	IADC Bit Dull	IADO	Codes
lepth End (ftKB) SPP (psi)	Weigh	nt on Bit (1000lt	of) RPM (rpm)	Drilli	ng Torque	PU HL (1000lbf)	SO HL (100	OOIbf) Rol	HL (1000lbf)
	Killa Livetaa ili ko						Employee College	gisteriki i garanti, juduh	
DAILY HYDRAULICS Max Open Hole AV (ft/min) Max Casing	AV (ft/min)	Bit	Jet Velocity (ft/s)	Bit P	ressure Drop (psi)	Bit Hyd	raulic Power (hp)	HP/Area (hp	n/in²)
BOTTOM HOLE ASSEMBLY DET Jts Item Descript			OD (in)		D (in)	Top Thread	Len	(ft)	Cum Len (ft)
NUD USAGE		Desc	cription				Consume	d	On Loc
	estatir.							Sacre Colors (* 1915) Grand Colors	
CONSUMABLES		Supply Item De	scription				Consumed		Cum On Loc
DAFFTY OUT OVE 15A									
SAFETY CHECKS - JSA Date Type			Descript	lion			Comment		
Survey Data	Talika:		7.67.69/0	v T	VIC (6)	NS (ft)	F	W (ft)	DLS (*/100ft)
MD (ftKB) Incl (°)	imphair agusis	Azm (°)	TVD (fikb	,	VS (fi)	NS (ft)			



Report Date: 1/9/2007 AFE#: 05-6558 **Cost Type:**

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation: Drilling Hours (hrs): Report Number: 19.0 Rig Name/No: 51 Lease: ML-11124

County: Uintah State: Utah Depth End (ftKB): 780.0

Depth End (TVD) (ftKB):
Depth Progress (ft): 0.00 Average ROP (ft/hr): Days From Spud (da

48800 33 H RO 410	PROGRA		digital control of the land	Set Depth	Louden et La vella e l	Dens
			Set Depth	(TVD)		Fluid
OD (in)	Wt (lbs/ft)	Grade	(ftKB)	(ftKB)	Run Date	(lb/gal)
14	36.75	Α	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Report	Tuilib	GI. 10						ays i folii o	puu (uay	3 ,. 0	1.00				
1/8/2007			2007 0	6:00						245-5-					
Operations Blade lo			l cellar	ring						24hr Fo Finish	recast up with wellh	ead			
Remarks				<u>~</u>							•				
	11:11:11:11	gradejen.	(HEGELE	7 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	7, 85, 16	NIS SALUSAR	eg Szeg kei i		(A. (20))	4.7.25			KRANGERS STRE	arqagiissi	
DAILY C	ONT	ACTS				1-1-6								Position	
Trevor N	lurray	<u>1.41.0x7000</u>		Liza Niberia d	14(13811)	JOD C	contact		<u> </u>			Rig Sup	ervisor	Position	
	Tracks.							7.008 (2.00)							
From		S. (hrs)	Code		Descr	iption	1					Description OP			
06:00		2.00	01		Up & 7	Геаг	Mov	e grader to l	ocation						
08:00		3.00	39	Dov Oth			Blad	e location					w		
11:00		2.00	39	Oth			Insta	all cellar ring							
13:00		17.00	39	Oth	ner		N o п	novement		iam extelectoris	www.ca.co.co.co.co.co.co.co.co.co.co.co.co.co.	The same of the sa	945 (2000) (C. 404) (C. 40 (4) (-)		
COSTS															
Daily Cost	Total 2,738		Cumula	ative Cost 115,3		Total AF	E Amou 626,0	1	otal AFE Sup		Working In	terest (%) 100.00	Daily Mud Cost	Cu	mulative Mud Cost
	2,736		L a 195	110,0			020,0)OO		78 7 785		100.00			www.carane
MUD PF Mud Type		RTIES MW (lb/g	nal\	FV (s/qt)		PV Override	a (cn)	YP (lbf/100ft²)	рН	- 2	Gel(10sec) (lbf/	Gel(10min) (lbf/	WL (ml /30min)	HTHP (ml /	/30min) [LCM
		, ,	,		,	T V OVERTICE	s (up)	TT (IDIT TOOK)	P		00007 (1000.				
Filter Cake	(/32")	Pf (mL	Pm (m	0 (%)		W (%)		Sd (%)	Chl (mg/l	-)	MBT (lb/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (I	Hole) Mud Lost (Surf)
Avg Backgr	ound G	as (%)	<u> </u>		Avg	Connection	Gas (%	6)		Avg Dril	l Gas (%)		Avg Trip Ga	s (%)	
		119771048	0010000505		antireaciei.	arentinente mississi	23.55.55	(11 to (04 to (3/200))		0.8 per 50.80ps	826-526-3 for a disease a 19		norak najiristi satsootaa	daes com Notice	
PUMP C	PER	ATION	S												
No.			Ma	ake				Model		Str	oke (in) Li	ner Size (in)	P (max) (psi)	Vol/Stk (b	Vol/Stk OR (bbl/stk) (bbl/stk)
PUMP C	HEC	KS .								3142				4	
No.	1.11	1943	Me	ıke		Sig Policy (A)	STATE SHARE	Model	<u> </u>	Pro	es (psi)	Slow Spd S	Strokes (spm)	Eff (%)	Q (gpm)
		- 1111.713		iigisbiidiis			84.143								
BIT INF	ORMA	ATION			10.40		446(4	Total dep	th	- 1				(Vicini) salarid Vicini) salarid	Total hours
Cina (la)			Make			Tuna		drilled by I (ft)	bit Avg Ro (all) (ft/		epth In (ftKB)	Depth Out (ftKB)	Dull Out	IADC C	drilled by b
Size (in)	18 Bu	cket	Make	1(1(1.17)	Bucke	Type :		60.	7 1 1 3 1 2 2 2 2 Y C 1 C 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.0	0.0	60.0			6.0
	11 Air	·			Air		4 10 am - 10 a	720.	00 3	7.9	60.0	780.0			19.0
DAILY D	RILL	STRIN	IG INF	ORMAT	TION										
Bit Run	Size (in) M	ake		Model		Dep	oth In (ftKB)	Depth Out	(ftKB)	Avg ROP (No	ozzies (/32")	IADC Bit Dull	l	ADC Codes
Dooth End	(#VP)		PP (psi)		11/40	ight on Bit (1	OOOIDE	RPM (rpm)	L	Drilling	Torque	PU HL (1000lbf)	SO HL (100	DIPU	Rot HL (1000lbf)
Depth End	(IIIND)		PP (psi)		VVE	agrit on bit ()	oooibi)	KEWI (IPIII)		Drilling	Torque	PO RE (1000IDI)	30 112 (100	oibi <i>)</i>	Kot HE (1000IDI)
DAILY F	IVDD	ALII IC													
Max Open				ax Casing	AV (ft/mi	in)	Bit Je	t Velocity (ft/s)		Bit Pres	sure Drop (psi)	Bit Hydrau	lic Power (hp)	HP/Area	a (hp/in²)
	111-117	77 - 27	7.12, 7.1.5	750 T.	riganera,		S NEW ALL S	SEPTURATE TO	Control of the Control	100				1,000,000,000,000	
BOTTO	M HO	LE AS												n T	8.212-6
Jts			iter	n Descrip	tion	i (Aliferta Principa)	urifica 8	OD (in)	\$1523 (10) Est	ID (i	n)	Top Thread	Len (t)	Cum Len (ft)
MUD III	ACE									3 (1.34°)					
MUD US	AGE			ggenty) Ybrittik			Descrip	otion	os, 1828 - 1224 - 1228 - 1236				Consume	l :	On Loc
		J		F 7 TEL 23 L		SST CHARLES	LAGNER	71.020872.1080347	one in their:	W-021-11	TOTO HERONINGSET				
CONSU	MABL	.ES													
		indis Rep				Supply Iter	n Descr	ription	<u> </u>				Consumed	Kiri Debasa	Cum On Loc
		116-126-1	Tehan		71777463288 1.0018330170	n-manily			1000000				77, 13 x . 31		
SAFETY Date	CHE	CKS -	JSA	Type			Miller (Mille Susteman	Descrip	otion		Baranda Baranda Tarangan		Comment		
Survey	Data MD (ftk	(B)		inci (°)		Azm (°)		TVD (fike	3)		VS (ft)	NS (ft)	EV	V (ft)	DLS (*/100ft)
									•						
					L							L	L. Constant		



Report Date: 1/8/2007 AFE#: 05-6558

Report Printed: 7/20/2007

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Patterson Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:

Rig Name/No: 51 Lease: ML-11124 County: Uintah

State: Utah
Depth End (ftKB): 780.0
Depth End (TVD) (ftKB): Depth Progress (ft): 0.00 CASING PROGRAM Set Dept (TVD) (ftKB) Wi (lbs/ft) Grade 36.75 A-... 24.00 J-55 Run Date 12/20/2006 OD (in) 14 8 5/8 780 1/4/2007

Drilling Ho Report Nu	ours (hrs					Average F Days Fron			-32.63							
1/5/2007 0 Operations at	6:00 - 1/ Report Time	8/2007 (06:00	(C.)				24h	r Forecast					GENERAL EN LA PERSONAL PERSONA	Strandari Kalenderi	
No movem Remarks	•							Bla	de location,	put	in cellar ring,	install w	ell hea	d		enober vallende di albito 17 anni 17 a
DAILY CO	NTACTS															
Trevor Mu	rray	40000, N. S.		jorny.	Job Con	lact								Position	<u>Dalog, sifel</u>	
COSTS																
Daily Cost To	ial 30	Cumul	lative Cost 112,63	33	Total AFE A	mount 26,000	Total /	AFE Sup	Wor		terest (%) 100.00	Daily Mu	d Cost	Cı	mulative	Viud Cost
MUD PRO						1 1/20 (t) 4/4 00			70-140-		0-1/40	ėr lagrija	-1 /20i-\	UTUD (m)	190in\li	CM
Mud Type	MW (II	o/gal)	FV (s/qt)		PV Override (d	p) YP (lbf/100		Н	Gel(10sed				nL/30min)			
Filter Cake (/3	32") Pf (mL	Pm (m	. O (%)		W (%)	Sd (%)	C	Chi (mg/L)	MBT (lb/b	bl)	Sol (%)	Calciu	im (mg/L)	Mud Lost (Hole) N	fud Lost (Surf)
Avg Backgrou	nd Gas (%)			Avg	Connection Ga	ıs (%)		Avg	Drill Gas (%)	*********		, /	lvg Trip G	ias (%)		
PUMP OP	ERATIO	NS														
No.		M	ake			Model			Stroke (in)	L	ner Size (in)	P (ma	x) (psi)	Vol/Stk (I	obl/stk)	Vol/Stk OR (bbl/stk)
PUMP CH	ECKS															
No.		М	ake			Model			Pres (psi)		Slow Spd No	Strokes	(spm)	Eff (%)		Q (gpm)
BIT INFO	RMATIO	u		ţ.					4.1							
Size (in)		Make			Type	drille	l depth d by bit (ft)	Avg ROP (all) (ft/hr)	Depth in (ftKl	B) I	Depth Out (ftKB)	Dull	Out	IADC C	odes	Total hours drilled by bit (hrs)
18	Bucket Air			Bucke Air		I	60.00 20.00	10.0 37.9	1	0.0	60.0 780.0	1				6.00 19.00
DAILY DR	ILL STR	ING INF	ORMAT	ION												
		Make		Model		Depth In (ftKB)	De	epth Out (ftKI	B) Avg ROP	(No	ozzles (/32")	IADC	Bit Dull		IADC Cod	es
Depth End (ft	KB)	SPP (psi)		Wei	ght on Bit (100	Olbf) RPM (rp	m)	Dril	ling Torque		PU HL (1000lbf))	SO HL (10	000lbf)	Rot HL ((1000lbf)
DAILY HY Max Open Ho			Max Casing	AV (ft/mii	n) B	it Jet Velocity (fi	Vs)	Bit	Pressure Drop (psi)	Bit Hyd	raulic Powe	er (hp)	HP/Are	a (hp/in²)	
BOTTOM Jts	HULE A		m Descript			OD (in)			ID (in)	200	Top Thread		Len	(R)	Cı	ım Len (ft)
MUD USA	\GE				D	escription							Consum	ed l		On Loc
						sacription .				300						
CONSUM	ABLES				Supply Item D	Description						Consu	med		Cum (On Loc
SAFETY (CHECKS	- JSA	Туре			De	escription	•					Comment			
		2	1975) min		Series Series								CURCUSTS.			Çeriya iyi e
Survey D	ata ID (ftKB)		Incl (°)		Azm (°)	20.00	(ftKB)	N. C. J. J. St. St. St. St. St. St. St. St. St. St	VS (ft)		NS (ft)) (1	E	W (ft)	D	LS (*/100ft)
								<u> </u>				•				



Report Date: 1/5/2007 AFE#: 05-6558

Report Printed: 7/20/2007

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Rocky Mountain Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation: Drilling Hours (hrs): Report Number: 17.0 Rig Name/No: 02 Lease: ML-11124 County: Uintah

State: Utah
Depth End (ftKB): 780.0
Depth End (TVD) (ftKB): Depth Progress (ft): 0.00 Average ROP (ft/hr):

Days From Spud (days): -35.63

	PROGRA		1			
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Operations at Drill surface	06:00 - 1/5 Report Time ce, run and								24hr Fo	recast wellhead			(2) (3) (2) (3)		1 1811, 11			
Remarks		8897. P888		g EUZISSI		J.)(1,51,45					Ş(()3841)		iddd		e de uses e postes	ertespeselliki i i		ang quirtur
DAILY CO	ONTACTS				Job Cor	itact									Position			
Trevor Mu	ırray			2.000 111 830							WE'S A COST		satrace					
TIME LO									. Kiring									
From 06:00	HRS. (hrs) 10.00	39	e Othe								hand	Description Of dle longer p	oipe.			<u> </u>	<u> </u>	
16:00	2.00	15	Run	Casing) F	Ran a s	hoe one	joint a flo with cen	at colla	ar and 17	more	joints of 8	5/8 one o	J-55 24 lb ca centralizer pe	sing, fo r ioint	r		
18:00	0.75	01	Rig I Dow	Up & T n	1							n location			. ,			
18:45	3.25	16	Cem	nenting		20:26 20:28 20:35 20:43 21:15 21:43 21:52 21:55	Tested e Started 3 Started 8 Fresh wa Drop plu with 46.8 Cement Slow pur Landed	equipmen 30 bbl of 1 20 bbl gel 36.1 bbl of ater now 3 g, and st 38 bbl fres to surfac	t to 100 fresh water to 100 at surfart disposit water to 100 at water to 100 at to 100	00 psi Go vater dowlo bbl/min a ent @ 2.5 ace blacement er @ 2.5 10 bbls of blacemin bbl/min	od Tennode and 2 bbl/n t of centre bbl/m f wate	nin and 50 ement in and 55 p er still left to	test) I/mir psi osi	1				
22:00	8.00				1	lo mov	ement											
COSTS		- 1935 H					7,000											
Daily Cost To		Cumu	lative Cost	12	Total AFE	Amount 26,000		otal AFE Sup	,	Work	_	erest (%) 00.00	D	aily Mud Cost		Cumulativ	e Mud C	ost
	,553		112,10)3 	0.	20,000						00.00						
MUD PRO Mud Type	DPERTIES MW (lb/		FV (s/qt)		PV Override (ср) ҮР ((lbf/100ft²)	рН	Control of the Contro	Gel(10sec) (lbf/	Gel(10min) (lbf/	WL (mL/30min)	HTHP	(mL/30min)	LCM	
Filter Cake (/	32") Pf (mL	. Pm (m.	O (%)		W (%)	Sd ((%)	Chi (mg/	L)	MBT (lb/bb	of)	Sol (%)		Calcium (mg/L)	Mud Lo	st (Hole)	Mud Lo	st (Surf)
Avg Backgrou	und Gas (%)		1	Avg	Connection G	as (%)			Avg Dri	 Gas (%)				Avg Trip Ga	is (%)			
	PERATION	ıs.) Yangan										. I				
No.		7.707 7	lake			N	Model		Str	oke (in)	Lin	er Size (in)		P (max) (psi)	Vol/S	tk (bbl/stk)		Stk OR bl/stk)
PUMP CH	HECKS	N	lake			. N	/lodel		Pr	ės (psi)		Slow Spd	S	trokes (spm)	Eff (%)	Q ((pm)
								10 / Fre		(No	l Hais					
Size (in)	RMATION	Make			Type		Total dep drilled by (ft)	bit Avg R (all) (fi	/hr) c	epth in (fike		epith Out (ftKB 60.		Dull Out	.IAD	C Codes		ital hours lied by bit (hrs) 6.00
L .	8 Bucket 1 Air			Bucke Air			60. 720.	li i	0.0 7.9	60).0).0	780.	- 1					19.00
	RILL STRI	NG INI Make	ORMAT	ION Model		Depth I	n (ftKB)	Depth Out	(ftKB)	Avg ROP (Noz	zzies (/32")		IADC Bit Dull		IADC C	odes	
Depth End (f	tKB)	SPP (psi		Wei	ght on Bit (100	iölbf) R	RPM (rpm)		Drilling	Torque	_ <u> </u>	PU HL (1000lb	rf)	SO HL (100	OOIbf)	Rot HI	_ (1000it	र्ग)
	YDRAULIC		Max Casing	AV (ft/mir		it let Ve	locity (ft/s)		Rit Pre	ssure Drop (p	nsi)	IBit Hv	drauli	c Power (hp)	[HP/	'Area (hp/in		
Man Obell Li	(IVIIIII)		Cesting	(7 100 (100 to 100 to		(.00)	Tag (867) NOW	XC161218	V	701ct-1	green de de la constant	- - "	- · · · · /			grante	
	HOLE AS		LY DETA				OD (in)		ID (in)	1	Top Thread		Len	(ft)		Cum Len	(ft)
Jts		160	am Descripti	On State		49990	OD (III)		1331B)	my.		. Top IIIIeau			1.9			
MUD US	AGE													erin ke siji il				
			er yizilikke		D	escription	1034-6033		35000 in.				eat à	Consume	o se alice.	16,1	On Loc	segrata un
CONSUM	MABLES						0.00											
					Supply Item	Description	on	7. alies :			995 <u>5</u> 03			Consumed		Cun	n On Loc	
																-		
					·													



Report Date: 1/5/2007 AFE#: 05-6558 Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Date Type	Description			nt .
Survey Data				EW (ft) DLS (*/100ft)
MD (ftKB) Incl (*) A	Azm (*) TVD (ftKB)	VS (ft)	NS (n)	EW (ft) DLS (*/100ft)



Report Date: 1/4/2007 AFE#: 05-6558

Report Printed: 7/20/2007

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Rocky Mountain Drilling

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB): Original KB Elevation (ft): 5,455.00

Target Formation:

Drilling Hours (hrs): 19.00 Report Number: 16.0

Rig Name/No: 02 Lease: ML-11124 County: Uintah State: Utah

Depth End (ftKB): 780.0 Depth End (TVD) (ftKB): Depth Progress (ft): 720.00 Average ROP (ft/hr): 37.9

Days From Spud (days): -36.63

CASING PROGRAM Set Depth (TVD) (ftKB) Dens Fluid (lb/gal) Wt (lbs/ft) Grad 36.75 A-... Run Date OD (in) 14 Grade 60 12/20/2006 8 5/8 24.00 J-55 780 1/4/2007

1/3/200			2007 0	6:00					e de la compa					
Operation Picking Remarks			ill surfa	ace				,		orecast urface, run ar	nd cement cas	ing		
DAILY	CONT	ACTS			lob C	Contact							Position	
Trevor	Murray	<u> </u>	<u> </u>		300 C	Onlact	***************************************							
TIME L						ionali					Total River		Section 18	3
From 06:00	HR	S. (hrs) 1.00	Code 35	Pick Up	tom Hole	Picke	d up BHA,	11" bit, ar	nd air	hammer, tag	Description OP Iged bottom @	9 60'	<u> Julia (Sistap Scalc.)</u>	<u>ikitoi Xiiri digilain miner</u>
07:00		19.00		Drilling			d 11" hole f			TD				
02:00		0.50	07	Conditio Circulate	n and/or mud	Blow	cuttings cle	an from h	ole					
02:30		3.50	36	Lay Dow	n Drill tom Hole	Tripp	ed drill pipe	out of ho	le, an	id laid down I	BHA and drill p	pipe.		
COSTS Daily Cos			Cumul	ative Cost 68,550	Total AF	E Amour 626,00	1	otal AFE Sup		Working	Interest (%) 100.00	Daily Mud Cost	Cumula	ative Mud Cost
MUD P	ROPE	RTIES												
Mud Type		MW (lb/g	gal)	FV (s/qt)	PV Override	e (cp)	/P (lbf/100ft²)	рН		Gel(10sec) (lb	f/ Gel(10min) (lt	of/ WL (mL/30min)	HTHP (mL/30m	in) LCM
Filter Cak	e (/32")	Pf (mL	Pm (m	. O (%)	W (%)		Sd (%)	Chl (mg/l	.)	MBT (lb/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole) Mud Lost (Surf)
Avg Back	ground (] Gas (%)			Avg Connection	Gas (%)			Avg Dr	ill Gas (%)		Avg Trip G	as (%)	
PUMP	OPER	ATION	S											Vol/Stk OR
No.			М	ake			Model		s	troke (in)	Liner Size (in)	P (max) (psi)	Vol/Stk (bbl/st	anne de la companya del companya de la companya del companya de la
PUMP	CHEC	KS												
No.			М	ake		<u> </u>	Model		P	res (psi)	Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
BIT IN	FORM	ATION				SA,								
Size (i			Make		Туре		Total dep drilled by (ft)	th bit Avg Ri (all) (fl		Depth In (ftKB)	Depth Out (ftKB)	Dull Out	IADC Codes	Total hours drilled by bit (hrs)
Oizo (ucket ir	,,,d,to	Bud Air	cket		60. 720.	00 1 00 3	0.0 7.9	0.0 60.0	60.0 780.0	1		6.00 19.00
DAILY	DRILI	. STRII	NG INF	ORMATION										
Bit Run 1	Size (lake \ir	Mod		Dep	th In (ftKB) 60.0	Depth Out 780		Avg ROP (37.9	Nozzles (/32")	IADC Bit Dull	IADO	Codes
Depth Er			SPP (psi)		Weight on Bit (1 2,000		RPM (rpm)			g Torque	PU HL (1000lbf			t Ht. (1000lbf)
		RAULIC V (ft/min)		Max Casing AV (f	Vmin)	Bit Jet	Velocity (ft/s)			essure Drop (psi)		fraulic Power (hp)	HP/Area (hr	o/in²)
		LE AS	SEMB	LY DETAIL			OD (in)			lies I	Top Thread	Len	(0)	Cum Len (ft)
Jts			πε	m Description			OD (III)		טו	(11)	TOP THEESE	201		
MUD	JSAGE					Descrip	tion			100	-43. 1. 18 ⁸⁹	Consume	ed .	On Loc
CONS	UMAE	LES					ross.					Consumed		Cum On Loc
SAFE	TY CH	ECKS .	. JSA											
D	ate			Туре			Descri	ption				Comment		
Surve	y Data MD (f	l tKB)		Incl (°)	Azm (°)		TVD (ftK	В)		VS (ft)	Material State Control of the Contro)	W (ft)	DLS (*/100ft)
			L.											



Report Date: 1/3/2007 AFE#: 05-6558 Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Field Name:

API: 43047375710000 Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:
Drilling Hours (hrs):
Report Number: 15.0

Rig Name/No: Lease: ML-11124 County: Uintah State: Utah

Depth End (ftKB): 60.0 Depth End (TVD) (ftKB): Depth Progress (ft): 0.00 Average ROP (ft/hr):

	PROGR	****				
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Report Num	ber: 1	5.0			C	ays From	Spud (days):	-37.63					
1/2/2007 06:	00 - 1/3	/2007 0	6:00		278121		12						
Operations at Re Move in air r								r Forecast egin drilling	surfa	ice			
Remarks													
DAILY CON	TACTS								1357				
100000000000000000000000000000000000000		ifile fist		Job	Contact							Position	
Trevor Murra	ay	ini Fedr			J&35.E3								
	IRS. (hrs)	Code		iption					n 2055 (1811)	Description OP	die gliebe die 1900 Vielenie	ettajonikaleuski. Johnstervolginski	gatas friiš iraidd Tayldiau 2000
06:00 12:00	6.00 4.00		Other Rig Up &	lear .	Mov	e ria to loc	ation and rig u	מו					
			Down			_							
16:00	14.00	24	Fishing		Call	for magne	ŧ	-	mme	r was dropped	down hole.		
						n for sledge n retrieved a	hammer with at 06:00	magnet					
				J. P. Bartania				(1)	2027				
COSTS Daily Cost Total		Cumul	ative Cost	Total A	NFE Amo	unt	Total AFE Sup	Wo	orking l	Interest (%)	Daily Mud Cost	Cumulative	e Mud Cost
495	5	1	68,550		626,	000			*:/ucox	100.00			erelagaires, j
MUD PROP Mud Type	ERTIES		FV (s/qt)	PV Overn	ide (cp)	YP (Ibf/100ft²) pH	Gel(10se	ec) (lbf	/ Gel(10min) (lbf.	/ WL (mL/30min)	HTHP (mL/30min)	LCM
	,	- /						MBT (lb/			Calcium (mg/L)		Mud Lost (Surf)
Filter Cake (/32"		. Pm (m		W (%)		Sd (%)	Chl (mg/L)	,	(DDI)	Sol (%)			Mud Lost (Gull)
Avg Background	I Gas (%)		Avg	Connection	on Gas (9	%)	Av	g Drill Gas (%)			Avg Trip Gas	s (%)	
PUMP OPE	RATION	S											
No.			akė			Model		Stroke (in)		Liner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
.,,,				2,3 * 2,0 * 1.00	0.000								
PUMP CHE	CKS						1	B 2 (-1)	1	Blass Sad	Strate (ann)	E# (04.)	O (com)
No.	<u>ijan'arkat</u>	M	ake			Model	A (1980) 15 (1980) 4 (1980)	Pres (psi)		Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
BIT INFORM	MATION												
						Total d	by bit Avg ROP						Total hours drilled by bi
Size (in)	Bucket	Make	Buck	Type ≘t		(ft) 6	0.00 (all) (ft/hr)		(KB)	Depth Out (ftKB) 60.0	Dull Out	IADC Codes	(hrs) 6.0
17 11711	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NG INE	ORMATION										
Bit Run Size		Make	Model	[1]	De	pth In (ftKB)	Depth Out (ftK	B) Avg ROI	P (Nozzies (/32")	IADC Bit Dull	IADC Co	odes
Depth End (ftKB	<u> </u>	SPP (psi)	IW/e	eight on Bit	/1000lbf) RPM (rpm)) IDr	illing Torque		PU HL (1000lbf)	SO HL (1000	Dibf) Rot Hi	_ (1000lbf)
Deput End (tike]	3FF (psi)		agill on bit	(10001)) I'll W (\pin)	,	ming rorquo	(1102-142)	TO THE (TOODIET)	00 112 (100		2.0.00.3, 2
DAILY HYD										la:		UDVA/	
Max Open Hole	AV (ft/min)	M	lax Casing AV (ft/m	in)	Bit Je	et Velocity (ft/s	Bit	Pressure Drop	(psi)	Bit Hydra	aulic Power (hp)	HP/Area (hp/in	•)
воттом н	IOLE ÁS	SEMB	LY DETAIL										
Jts			m Description			OD (in)		ID (in)		Top Thread	Len (f	1)	Cum Len (ft)
MUD HEAC													
MUD USAG	7E		(10 (ax) 7 (ax) 2 (ax)		Descr	iption					Consumed		On Loc
									7830	THU.			
CONSUMA	BLES			Supply I	tem Desc	cription					Consumed	Cun	n On Loc
	The large per	gas 20 300		Transmitte		1		- 1479-11 (N. 1793)	3			Managa Programs	
SAFETY CI	HECKS	- JSA	Туре			Des	cription				Comment		
									90 GEO. 15	10 A		Normalisation (Cont.)	41.5 (1.5)
Survey Dat MD	ta (ftKB)		Incl (°)	Azm (°)		TVD (f	tKB)	VS (ft)		NS (ft)	EV	V (ft)	DLS (*/100ft)



Report Date: 12/30/2006 AFE#: 05-6558

Report Printed: 7/20/2007

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:

Rig Name/No: Lease: ML-11124 County: Uintah State: Utah

Depth End (ftKB): 60.0 Depth End (TVD) (ftKB): Depth Progress (ft): 0.00

CASING	PROGR/	AM				
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75		60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

DAILY CONT	ort Time		6:00			24	4hr Forecast					
DAILY CONTA Trevor Murray						ĮV.	Vait on air	ria				
Trevor Murray									A-4-4		une	
TIME LOG	ACTS			Job Cont			ua li				Position	
	y	2000 - 1180 <u>0</u>		JOD COIL	act				A TO SECURE			
From HR		0.12	Descript						Description OP			
06:00	24.00 39	Code	Other	D C p it C a o N	alled Rocky lanned due to was on and alled to find snow bank of the snow ba	Mountain Dril o un-availabili would move cout where cas on top of the rank, so that se	ling and the dity of parts directly to sing was a mountain, omeone c	I not show ney inform due to he Hacking F and found informed could be at	on up, waited on the the the collection was the collection the the company of the location to the company of the location the l	on casing it also e rig had taken rig was running n finished. uck hauling cas to let me know o unload the tru problems with	longer to fix the casing on the sing was stuck when the truck ack.	en hole that in got out
COSTS	11 Y 15 11 1											
Daily Cost Total 17,201	1 -	cumulative C	ost ,055	Total AFE A	mount 6,000	Total AFE Sup		Working Into	erest (%) 00.00	Daily Mud Cost	Cumulativ	re Mud Cost
	nannan.	00,	,000) <u>02</u>						erovenia i producti. Živiti		
MUD PROPE Mud Type	MW (ib/gal)	FV (s	/qt) F	PV Override (c	p) YP (lbf/100ft	²) pH	Gel(10sec) (lbf/	Gel(10min) (lbf/	. WL (mL/30min)	HTHP (mL/30min)	LCM
Filter Cake (/32")	Pf (mL Pr	n (m Ö (%)	· ·	W (%)	Sd (%)	Chl (mg/L)	мвт	(lb/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf) .
Avg Background G	Gas (%)		Avg	Connection Ga	s (%)	A	vg Drill Gas	(%)		Avg Trip Gas	5 (%)	
DUMD OBER	MATIONS											
PUMP OPER	CATIONS	Make			Model		Stroke (ir	n) Lir	ner Size (in)	P (max) (pši)	Vol/Stk (bbl/stk)	Vol/Stk OR (bbl/stk)
110.	an eller engelie											
PUMP CHEC	CKS	Make			Model		Pres (ps	i)	Slow Spd	Strokes (spm)	Eff (%)	Q (gpm)
			H-1440						No			
BIT INFORM	IATION				Total	depth	1		T			Total hours
Size (in)	M	ake		Туре	drilled (fi	t) (all) (ft/h	r) Depth l		epth Out (ftKB)	Đuli Out	IADC Codes	drilled by bi
	lucket		Bucket		(50.00 10	.0]	0.0	_60.0 -	<u> </u> -	- 	6.0
DAILY DRILL Bit Run Size (i			Model		Depth In (ftKB)	Depth Out (fi	tKB) Avg	ROP (No	zzies (/32")	IADC Bit Dull	IADC C	odes
Depth End (ftKB)	ISPP	(psi)	Weig	ght on Bit (1000	Olbf) RPM (rpm	n) [[Orilling Torqu	e	PU HL (1000lbf)	SO HL (1000	Dibf) Rot H	IL (1000lbf)
The second secon			ASSECTION OF THE PROPERTY OF T	o no monece de la comp				1987,505,3				110111 7012
DAILY HYDR Max Open Hole A		Max Cas	sing AV (ft/min) В	it Jet Velocity (ft/	s) E	3it Pressure [Orop (psi)	Bit Hydrau	ulic Power (hp)	HP/Area (hp/ir	1 ²)
Terrene ofgefarough	**************************************	HertZastisk	ting segar		923 200						Faresialite	
BOTTOM HC	OLE ASSE	MBLY DI			OD (in)		ID (in)		Top Thread	Len (f	U	Cum Len (ft)
		reny god										
MUD USAGE				De	scription					Consumed		On Loc
CONSUMAB	BLES			Supply Item D	escription		it destrict	725 20 315 10		Consumed	Cu	m On Loc
	. 1500 - 1											
SAFETY CHI Date	ECKS - J	SA Tyj	pe		De	scription				Comment		
Survey Data							1.05	7 4 \	NO 75		() () () () () () () () () ()	DLS (*/100ft)
MD (fi		Inc	l (°)	Azm (°)	TVD	(ftKB)	VS	(ft)	NS (A)	Janos I Complete EV	V (ft)	, DEG (FIOUR)



Report Date: 12/27/2006 AFE#: 05-6558

Report Printed: 7/20/2007

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation: Drilling Hours (hrs):

Rig Name/No: Lease: ML-11124 County: Uintah State: Utah

Depth End (ftKB): 60.0

Depth End (TVD) (ftKB):
Depth Progress (ft): 0.00
Average ROP (ft/hr):

<u> </u>	PROGR	MODEL SECTION	A second second	0-10	grigorija i samani ce.	N
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Description Professional Pr	Report Number: 13	3.0		Days From S	pud (days):	4.63				
Walt on air rig Malicy CONTACTS Jac Contest Tevor Murray Rig is to be declared on bossin by thursday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is to be declared on Friday, 12/28/06, called and ordered casing. Casing is t	12/26/2006 06:00 - 1	2/27/2006 06:00)		lO4h F					
DAILY CONTACTS	Wait on air rig									
Tentro Multrary Tentro Multrary Tentro Multrary Tentro Tent	Remarks		****							
Price THRS (Pris) Code	DAILY CONTACTS		lob Cool						Position	
Property 1886 (rins) 20 de Description Rig is to be ready and on location by thursday, 1228/106, called and ordered casing.	Trevor Murray		JOB CON	acı					Fosition	
Page H85 (Phs) Code Description Rig is to be ready and on location by thursday, 1228/105, called and ordered casing.	TIME LOG									
2081S	From HRS. (hrs)		r R	ig is to be read	y and on location	n by thursday	, 12/28/06, ca	lled and ordere	d casing.	
Total AFE Amount Social Total AFE Amount Social Afe Afe Amount Social Afe			C	asing is to be d	elivered on Frid	lay, 12/29/06.			Barango da se construir de	
### Strate (pp) Make Model Pres (ps) Slow Spd Strates (pp) Pres (ps) No Make Model Pres (ps) No Strates (pp) Strates (pp) No Strates (pp) Strates (pp) No Strates (pp) Strate	COSTS					100		10 - 11 - 14 - 16 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15	(
Number Mark Marke Model Pres (ps) Sink Spd Stokes (ppm) Eff (s) Volidity (bb/sk) Volidit	Daily Cost Total				oral AFE Sup			Daily Widd Cost	Cumulativ	
	MUD PROPERTIES									
Avg Drill Gas (%)	Mud Type MW (lb/g	gal) FV (s/qt)	PV Override (c	p) YP (lbf/100ft²)	pН	Gel(10sec) (lbf/	Gel(10min) (lbf	WL (mL/30min)	HTHP (mL/30min)	LCM
PUMP CHECKS No. Make Model Stroke (n) Liner Size (in) P (max) (psi) Vol/Six (bol/six) (bol/six) PUMP CHECKS No. Make Model Pres (psi) Slow Spd Strokes (spm) Eff (N) 0 (gpm) Size (in) Make Type dialed spth (in) (in) (in) (in) (in) (in) (in) (in)	Filter Cake (/32") Pf (mL	Pm (m O (%)	W (%)	Sd (%)	Chi (mg/L)	MBT (lb/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf)
No. Make	Avg Background Gas (%)		Avg Connection Ga	s (%)	Avg Dri	I Gas (%)		Avg Trip Ga	ls (%)	
No. Make										
PUMP CHECKS No. Make Model Pres (ps) Slow Spd Strokes (spm) Eff (%) Q (gpm) BIT INFORMATION Size (in) Make Type dilited by bit Avg ROP (in) (in) (in) (in) Depth in (fixE) Depth Out (fixE) Dual Out IADC Codes dilited by bit Avg ROP (in) (in) (in) (in) (in) Depth in (fixE) Depth Out (fixE) Dual Out IADC Codes dilited by bit (fixe) in (in) (in) (in) (in) Depth in (fixE) Depth Out (fixE) Dual Out IADC Codes dilited by bit (fixe) in (in) (in) (in) (in) Depth in (fixE) Depth Out (fixE) Dual Out IADC Codes dilited by bit (fixe) in (in) (in) (in) (in) (in) (in) (in)										
No Make Model Pres (pa) Slow Spd Strokes (spm) Eff (%) Q (gpm) SIT INFORMATION Size (in) Make Bucket Go.00 10.0 Depth in (fix(B) Depth Out (fix(B) Depth O	No.	Make		Model	St	oké (in) L	iner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	(DDI/Stk)
No Make Model Pres (pa) Slow Spd Strokes (spm) Eff (%) Q (gpm) SIT INFORMATION Size (in) Make Bucket Go.00 10.0 Depth in (fix(B) Depth Out (fix(B) Depth O	PUMP CHECKS									
Size (in) Make Type drilled by bit (iii) (iiii) Depth In (iikB) Depth In (iikB		Make		Model	Pı	ės (psi) .		Strokes (spm)	Eff (%)	Q (gpm)
Size (in) Make Type (filed by bit Aug ROP (ii) Depth in (fixB) Depth Out (DIT INCODMATION									
Size (in) Make Type (ft) (eii) (ft/hr) Depth in (ft/kB) Depth Out (ft/kB) Duil Out LADC Codes (ftrs)	BITINFORWATION		was a same a							Total hours
DAILY DRILL STRING INFORMATION Sit Run Size (in) Make Model Depth In (ftKB) Depth Out (ftKB) Avg ROP (Nozzles (/32") IADC Bit Dull IADC Codes Depth End (ftKB) SPP (psi) Weight on Bit (1000ibh) RPM (rpm) Drilling Torque PU HL (1000ibh) SO HL (1000ibh) Rot HL (1000ibh) DAILY HYDRAULICS Max Open Hole AV (ft/min) Max Casing AV (ft/min) Bit Jet Velocity (ft/s) Bit Pressure Drop (psi) Bit Hydraulic Power (hp) HP/Area (hp/in²) BOTTOM HOLE ASSEMBLY DETAIL Jis Item Description OD (in) ID (in) Top Thread Len (ft) Cum Len (ft) MUD USAGE Description Consumed On Loc CONSUMABLES Supply Item Description Consumed Cum On Loc SAFETY CHECKS - JSA Date Type Description Converent				(ft)	(all) (ft/hr)			Dull Out	IADC Codes	(hrs)
Depth In (fitKB) SPP (psi) Weight on Bit (1000lbf) RPM (rpm) Drilling Torque PU HL (1000lbf) SO HL (1000lbf) Rot HL (1000lbf) Ro				60.1	00 10.0	0.0	60.0		 440-14-11/41-12-17-1	6.00
DAILY HYDRAULICS Bit Pressure Drop (psi) Bit Hydraulic Power (hp) HP/Area (hp/in²) Bit Jet Velocity (ft/s) Bit Pressure Drop (psi) Bit Hydraulic Power (hp) HP/Area (hp/in²) BOTTOM HOLE ASSEMBLY DETAIL Jis Item Description OD (in) ID (in) Top Thread Len (ft) Comment Consumed On Loc CONSUMABLES Supply Item Description Consumed Cum On Loc SAFETY CHECKS - JSA Date Type Description Comment Comment				Depth In (ftKB)	Depth Out (ftKB)	Avg ROP (N	ozzles (/32")	IADC Bit Dull	IADC C	odes
DAILY HYDRAULICS Rax Open Hole AV (f/min) Max Casing AV (fl/min) Bit Jet Velocity (ft/s) Bit Pressure Drop (psi) Bit Hydraulic Power (hp) HP/Area (hp/in²) BOTTOM HOLE ASSEMBLY DETAIL Jis Item Description OD (in) ID (in) Top Thread Len (ft) Cum Len (ft) MUD USAGE Description Consumed On Loc CONSUMABLES Supply Item Description Consumed Cum On Loc SAFETY CHECKS - JSA Date Type Description Comment Survey Data			······································							
As Open Hole AV (ft/min) Max Casing AV (ft/min) Bit Jet Velocity (ft/s) Bit Pressure Drop (psi) Bit Hydraulic Power (hp) HP/Area (hp/in²) BOTTOM HOLE ASSEMBLY DETAIL Jis Rem Description OD (in) ID (in) Top Thread Len (ft) Cum Len (ft) MUD USAGE Description Consumed On Loc CONSUMABLES Supply Item Description Consumed Cum On Loc SAFETY CHECKS - JSA Date Type Description Comment Survey Data	Depth End (ftKB) S	SPP (psi)	Weight on Bit (1000	llbf) RPM (rpm)	Drilling	Torque	PU HL (1000lbf)	SO HL (100	(Rot Hi	_ (1000lbf)
As Open Hole AV (ft/min) Max Casing AV (ft/min) Bit Jet Velocity (ft/s) Bit Pressure Drop (psi) Bit Hydrautic Power (hp) HP/Area (hp/in²) BOTTOM HOLE ASSEMBLY DETAIL Jis Rem Description OD (in) ID (in) Top Thread Len (ft) Cum Len (ft) MUD USAGE Description Consumed On Loc CONSUMABLES Supply Item Description Consumed Cum On Loc SAFETY CHECKS - JSA Date Type Description Comment Survey Data	DAILY HYDRAULIC	s								
MUD USAGE MUD USAGE Description Description Consumed Max Open Hole AV (ft/min)				Bit Pres	sure Drop (psi)	Bit Hydra	ulic Power (hp)	HP/Area (hp/in	")	
MUD USAGE MUD USAGE Description Description Consumed POTTOM HOLE AS	SEMBLY DETA	1		<u> </u>						
CONSUMABLES Supply Item Description SAFETY CHECKS - JSA Date Type Description Description Consumed Cum On Loc Comment				OD (in)	ID (n)	Top Thread	Len (ft) c	Cum Len (ft)
CONSUMABLES Supply Item Description SAFETY CHECKS - JSA Date Type Description Description Consumed Cum On Loc Comment										
SAFETY CHECKS - JSA Date Type Description Comment Survey Data	MUD USAGE		Dë	scription				Consume	d ett age	On Loc
SAFETY CHECKS - JSA Date Type Description Comment Survey Data						¥	# 55 y p. 2006			
SAFETY CHECKS - JSA Date Type Description Comment. Survey Data	CONSUMABLES		Supply Item D	escription				Consumed	Cun	i On Loc
SAFETY CHECKS - JSA Date Type Description Comment. Survey Data								Navara Tarabasa	San a series (12 d - Constitution (12 d	ar Pistrica dan Pa
Survey Data				Descrin	tion					
	Date	туре	5 (1 min 1 m	•			10.00 (10.00 19.4000 A) (10.0000 A)	OSIMII GIR		
	Survey Data MD (fiKB)						NS (ft)	E)	N (ft)	DLS (°/100ft)



Report Date: 12/22/2006 AFE#: 05-6558

Report Printed: 7/20/2007

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:
Drilling Hours (hrs):
Report Number: 12.0

Rig Name/No: Lease: ML-11124 County: Uintah State: Utah

Depth End (ftKB): 60.0 Depth End (TVD) (ftKB): Depth Progress (ft): 0.00 Average ROP (ft/hr):

RAM	8996896267	Set Depth	Milesia Chisassinini	Dens
Grade	Set Depth (ftKB)	(TVD) (ftKB)	Run Date	Fluid (lb/gal)
5 A	60		12/20/2006	
0 J-55	780		1/4/2007	
) Grade 5 A 0 J-55) Grade (ftKB) 5 A 60) Grade (ftKB) (ftKB) 5 A 60) Grade (ffKB) (ffKB) Run Date 5 A 60 12/20/2006

Drilling Hour Report Numi				Days From S	pud (days): -	49.63				
perations at Rep		2006 06:00			24hr F	orecast				
/ait on air rig	9				Wait	on air rig	.,,			
AILY CONT			Job Contac	t <u>13 11 25 1</u>					Position	
revor Murra	y 	1								
	RS. (hrs) Go 24.00 39	de Desc	cription	ria broke dow	vo rig will call	and let me knov	Description OP	æd.		
06:00 COSTS	24.00 39	Other	الما	ilg bloke dow	in, ng wiii cair					
Daily Cost Total	Cum	ulative Cost 50,854	Total AFE Amo		otal AFE Sup	Working In	nterest (%) 100.00	Daily Mud Cost	Cumulative	Mud Cost
MUD PROPE	ERTIES									
flud Type	MW (lb/gal)	FV (s/qt)	PV Override (cp)	YP (lbf/100ft²)	рН			/ WL (mL/30min)	HTHP (mL/30min) L	
	Pf (mL Pm (n		W (%)	Sd (%)	Chl (mg/L)	MBT (lb/bbl)	Sol (%)	Calcium (mg/L)		wide Lost (Suit) .
vg Background	Gas (%)	A	vg Connection Gas (%) 	Avg L	Orill Gas (%)		Avg Trip Ga	s (<i>m)</i>	
PUMP OPER	RATIONS				1	-				Vol/Stk OR
No.		Make		Model		Stroké (in) L	iner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	(bbl/stk)
PUMP CHEC	CKS				271.99					
No.		Make		Model	385	Pres (psi)	Slow Spd No	Strokes (spm)	Eff (%)	Q (gpm)
BIT INFORM	MATION									Total hours
			Туре	Total dep drilled by (ft)	bit Avg ROP (all) (fl/hr)	Depth in (ftKB)	Depth Out (ftKB)	Dull Out	IADC Codes	drilled by bi
Size (in) 18 E	Make Bucket	Buc		60		0.0	60.0			6.0
DAILY DRIL		FORMATION Mod	el [D	epth In (ftKB)	Depth Out (ftKB)	Avg ROP (N	ozzles (/32")	IADC Bit Dull	IADC Co	des
					la dia	ng Torque	PU HL (1000lbf)	 SO HL (100	nihî Ret Hi	(1000lbf)
Depth End (ftKB)) SPP (p	si) V	Veight on Bit (1000lb	f) RPM (rpm)	Drillie	ig roidue	PO HE (TOOOIDI)	OO TIE (100		Since Translation
DAILY HYDI		Max Casing AV (ft	(min) Bit J	let Velocity (ft/s)	Bit P	ressure Drop (psi)	Bit Hydr	aulic Power (hp)	HP/Area (hp/in²)
						30 A. C. S.				
BOTTOM H	OLE ASSEM	BLY DETAIL Item Description		OD (in)	i I	O (in)	Top Thread	Len (ft) C	cum Len (ft)
MUD USAG	iE		Desc	ription				Consume	d	On Loc
						1.				
CONSUMA	BLES		Supply Item Des	scription				Consumed	Cum	On Loc
SAFETY CH	HECKS - JSA									
Date		Туре		Descr	iption			Comment		
Survey Data	a (fiKB)	Incl (°)	Azm (°)	TVD (fik	(B)	VS (ft)	NS (ft)	E	W (ft)	DLS (°/100ft)



The Houston Exploration Company

Report Date: 12/21/2006 AFE#: 05-6558 **Cost Type:**

Report Printed: 7/20/2007

Daily Drilling Report

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Field Name: API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:
Drilling Hours (hrs): 6.00

Rig Name/No: Lease: ML-11124 County: Uintah State: Utah

Depth End (ftKB): 60.0 Depth End (TVD) (ftKB): Depth Progress (ft): 60.00 Average ROP (ft/hr): 10.0

CASING	PROGRA	AM		Aller III.		19111.
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

1 1 1 1 1 1 1 1 No. 1 1	mber: 1	1.0			Da	ays From S	Spud (days): -5	00.03			
	06:00 - 1	12/21/200	06:00		-17333873 (1) 2338 - 153		24hr Fo	venast	100		
ations at R	Report Time cket rig						I .	on air rig			
arks											
LY COI	NTACTS			l l	Contact		7.000				Position
or Muri	ray			JOE	Contact	11111/02/14/04/14/25/14					1.00001 (1.272.11.11.11.11.11.11.11.11.11.11.11.11.11
E LOG											
rom	HRS. (hrs)	Code	Descri	ption	No m	novement			Description OP		
00	4.00 2.00	1	Other Rig Up & T	ear		rig to locat	tion			and entire	
			Down			1.001 5.401		- I - II - OO! - 5		- bala	
00	5.00 1.00	1	Drilling Run Casin	α			' hole, as well a 18" pipe and ra				de A-252 1/4" wall pipe
00	1.00	16	Cementing		Cem	ent with 5 y	ards class G ce	ment, to surfa	ce		
00	6.00 6.00		Other Location W	lork		ed 18" rat ar novement	nd mouse hole,	and installed 2	25' of 14" pol	y pipe in each	
	0.00	100	Location	VOIN		io voimone					
STS Cost Tota	al	Cumulat	ive Cost	Total A	FE Amou	nt T	otal AFE Sup	Working In		Daily Mud Cost	Cumulative Mud Cost
11,0	065	7 13, 11	50,854		626,0	00		1	100.00		
	PERTIES			PV Overr	(22 / 2)	YP (lbf/100ft²)	рН	Col/10eec) (lbf/	Gel/10min\ (II	of/ WL (mL/30min)	HTHP (mL/30min) LCM
Гуре	MW (lb	/gai)	FV (s/qt)	PV Overr	ide (cp)	TP (IBI/TOOIL-)	Įρn				
Cake (/32	2") Pf (mL	Pm (m	O (%)	W (%)		Sd (%)	Chi (mg/L)	MBT (lb/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole) Mud Lost (Sur
ackgrour	nd Gas (%)		Avg	Connection	on Gas (%)	Avg Dr	ill Gas (%)		Avg Trip Gas	s (%)
Timesa.			Na sanga a		Ministra (
MP OP	ERATION	IS							100 mm		Vol/Stk O
No.	i i parkina ekonya. Programo	Mal	(e			Model	. SI	troke (in) Li	iner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk) (bbl/stk)
1.42.1								1			
MP CHI	ECKS	Mal	(e			Model	Р	res (psi)	Slow Spd	Strokes (spm)	Eff (%) Q (gpm)
- Laur (11)/2			10,00,313675	78.11.(50)(SNE	nesski i se	eranan-erita			No	32/09/PARIS (S. S. U.P.)	
INFOF	RMATION					Total de	sib I			1	Total ho
				T		drilled by	bit Avg ROP	Depth in (ftKB)	Depth Out (ftKB)	Dull Out	drilled by IADC Codes (hrs)
ze (in) 18	Bucket	Make	Bucke	⊤ype et	9,539, 23, 1,8		.00 10.0	0.0	60.0		6
LY DR	ILL STRI	NG INFO	ORMATION								
	ze (in)	_{Make} Bucket	Model Buck	et 1	Dep	oth In (ftKB) 0.0	Depth Out (ftKB) 60.0	Avg ROP (No	ozzles (/32")	IADC Bit Dull	IADC Codes
th End (ftk		SPP (psi)		ight on Bit	(1000lbf)	RPM (rpm)	Drilling	Torque	PU HL (1000lbf) SO HL (100	Olbf) Rot HL (1000lbf)
60	, ,			1(0				
											antigation in qualification in the contraction of t
	DRAULIC						180.2		lpa ()		LID(Asso (b) 6-8)
	DRAULIC le AV (ft/min		ax Casing AV (fl/m	in)	Bit Jet	t Velocity (ft/s)	Bit Pre	essure Drop (psi)	Bit Hyd	draulic Power (hp)	HP/Area (hp/in²)
Open Hol	le AV (ft/min) Ma			Bit Jet	t Velocity (ft/s)	Bit Pre	essure Drop (psi)	Bit Hyc	draulic Power (hp)	HP/Area (hp/in ¹)
Open Hol	le AV (ft/min	SSEMBL	ax Casing AV (ft/m Y DETAIL I Description			t Velocity (ft/s)		essure Drop (psi)	Bit Hyd		
Open Hol	le AV (ft/min	SSEMBL	Y DETAIL								
Open Ho	HOLE AS	SSEMBL	Y DETAIL			OD (in)					fi) Cum Len (fi)
Open Ho	HOLE AS	SSEMBL	Y DETAIL			OD (in)				Len (fi) Cum Len (fi)
TTOM Jts D USA	HOLE AS	SSEMBL	Y DETAIL		Descrip	OD (in)				Len (fi) Cum Len (fi)
TTOM Jts	HOLE AS	SSEMBL	Y DETAIL		Descrip	OD (in)				Len (fi) Cum Len (fi)
Open Hol	HOLE AS	SSEMBL Item	Y DETAIL		Descrip	OD (in)	ID ID			Len (fi) Cum Len (fi)
Open Holo OTTOM Jts JD USA	HOLE AS	SSEMBL Item	Y DETAIL		Descrip	OD (in)	ID ID			Len (fi) Cum Len (fi)
OPEN HOLD OTTOM Jits JUD USA ONSUM AFETY (Date	HOLE AS AGE ABLES CHECKS	SSEMBL Item	Y DETAIL Description		Descrip	OD (in)	ID ID			Consumed	d On Loc Cum On Loc
OPEN HOLD OTTOM Jts JUD USA ONSUM AFETY (Date	HOLE AS AGE ABLES CHECKS	SSEMBL Item	Y DETAIL Description		Descrip	OD (in) ption ription	ID ID	(in)		Consumed Comment	fi) Cum Len (fi)
Open Hol OTTOM Jts JD USA ONSUM FETY (Date	HOLE AS ABLES CHECKS	SSEMBL Item	Y DETAIL Description Type	Supply	Descrip	OD (in) ption ription	iption	(in)	Top Thread	Consumed Comment	d On Loc
TTOM JIS DUSA NSUM FETY (Date	HOLE AS ABLES CHECKS	SSEMBL Item	Y DETAIL Description Type	Supply	Descrip	OD (in) ption ription	iption	(in)	Top Thread	Consumed Comment	d On Loc
TTOM JIS DUSA NSUM FETY (Date	HOLE AS ABLES CHECKS	SSEMBL Item	Y DETAIL Description Type	Supply	Descrip	OD (in) ption ription	iption	(in)	Top Thread	Consumed Comment	d On Loc



Report Date: 12/20/2006 AFE#: 05-6558

Cost Type:

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Stubbs & Stubbs Const

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00 Target Formation:

Rig Name/No: 00 Lease: ML-11124 County: Uintah

State: Utah
Depth End (ftKB):
Depth End (TVD) (ftKB):

Depth Progress (ft):

CASING PROGRAM Set Depth (TVD) (ftKB) Dens Fluid (lb/gal) Set Depth (ftKB) Run Date 12/20/2006 1/4/2007 OD (in) 14 Wt (lbs/ft) Grade 36.75 A-... 24.00 J-55 60 8 5/8 780

Drilling Ho Report Nun		ס			Average R Days From	OP (ft/hr): i Spud (days)	: -51.63				
12/19/2006 Operations at R		/20/200	6 06:00			[24	hr Forecast				
nstalling pit		% comp	lete			I .	/ait on bucke	t rig			
		.au rak 22		7642 08 Fab		* * * * * * * * * * * * * * * * * * * *					
DAILY CON	ITACTS			Job	Contact					Position	
revor Murr	ay			ti nëndëy.							
	HRS. (hrs)	Code		iption				Description C	P		
06:00	9.50 0	0	Location V	Vork	Called Divisio Called Mary N 24 lb, J-55, 75 Called Rocky	Muse and order 50' and no long	as, to give 24 red casing, c ger than 42' j ing and lined	thr notice before asing is to arrive oints. up a rig to set th	e spudding. e Friday morning he conductor, as		
15:30	14.50	0	Location V	Vork	No Movement	t			The second secon		and the first of the second
совтв									D-it M.d Cod	(Cumulati	e Mud Cost
Daily Cost Tota 10,7		Cumulativ	e Cost 39,789	Total A	FE Amount 626,000	Total AFE Sup	VVo	rking Interest (%) 100.00	Daily Mud Cost	Cumulativ	e Mad Cost
MUD PROF				lavia -	- () 1/D (I-84000	D) [_U	10 al/10 a	c) (lbf/ Gel(10min)	(lbf/ WL (mL/30min)	HTHP (mL/30min)	li CM
Mud Type	MW (lb/ga		V (s/qt)	PV Overrie		·			Calcium (mg/L)		
Filter Cake (/32		²m (m C		W (%)	Sd (%)	Chl (mg/L)	MBT (lb/t	obl) Sol (%)			Mud Lost (Surr) .
Avg Backgroun	d Gas (%)		Av	Connection	n Gas (%)	A	vg Drill Gas (%)	A.V. V. C	Avg Trip Ga	S (70)	
PUMP OPE	RATIONS			Т		1		T			Vol/Stk OR
No.		Make) 		Model		Stroke (in)	Liner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	(bbl/stk)
PUMP CHE	cke										
No.	<u>-oro</u>	Make)		Model		Pres (psi)	Slow Spd.	Strokes (spm)	Eff (%)	Q (gpm)
BIT INFOR	MATION			frank							
					drilled	depth I by bit Avg ROP					Total hours drilled by b (hrs)
Size (in)		Make		Туре	()	ft) (all) (ft/hr) Depth in (ftk	(B) Depth Out (ftK	B) Dull Out	IADC Codes	
DAILY DRI			RMATION			101				1000	Lufseets
Bit Run Size	e (in) Mai	ke	Model		Depth In (ftKB)	Depth Out (fil	KB) Avg ROP	(Nozzies (/32")	IADC Bit Dull	IADC C	odes
Depth End (ftKl	B) SP	P (psi)	w	eight on Bit	(1000lbf) RPM (rpn	n) D	rilling Torque	PU HL (1000)	ыб) SO HL (100	Olbf) Rot H	L (1000lbf)
DAILY HYD									<u> </u>		
Max Open Hole			Casing AV (ft/m	in)	Bit Jet Velocity (ft/	/s) B	it Pressure Drop	(psi) Bit H	ydraulic Power (hp)	HP/Area (hp/in	12)
BOTTOM I	HOLE ASS	EMBLY	/ DETAIL								
Jts			Description	<u> </u>	OD (in)		ID (in)	Top Threa	i Len (ft)	Cum Len (ft)
MUD USAG	GE						4				
					Description				Consume	iksijus Droggus	On Loc
CONSUMA	ABLES	*									
				Supply It	em Description				Consumed	Cui	n On Loc
SAFETY C	HECKS -	JSA				19 or 19 or					
Date			Туре		De	scription			Comment		
Survey Da	i ta) (ftKB)		Incl (°)	Azm (*)	TVD	(fiKB)	VS (ft)	NS	(ft) E\	V (ft)	DLS (*/100ft)



Report Date: 12/19/2006 AFE#: 05-6558

Cost Type:

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Stubbs & Stubbs Const

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation: Drilling Hours (hrs): Rig Name/No: 00 Lease: ML-11124

County: Uintah
State: Utah
Depth End (ftKB): Depth End (TVD) (ftKB):
Depth Progress (ft):
Average ROP (ft/hr):

CASING	PROGRA	AM				
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	Ā	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Report Number: 9.0	Days From Spud (d	ays): -52.63	
12/18/2006 06:00 - 12/19/2006 06:00		24hr Forecast	
Operations at Report Time No movement, 85% complete Remarks		Line pit	
DAILY CONTACTS	Job Contact		Position
Trevor Murray	000000		
COSTS Daily Cost Total Cumulative Cost 29,024	Total AFE Amount Total AFE 626,000	Sup Working Interest (%) 100.00	Daily Mud Cost Cumulative Mud Cost
MUD PROPERTIES Mud Type MW (lb/gal) FV (s/qt)	PV Override (cp) YP (lbf/100ft²) pH	Gel(10sec) (lbf/ Gel(10min)	(lbf/ WL (mL/30min) HTHP (mL/30min) LCM
Filter Cake (/32") Pf (mL Pm (m O (%)	W (%) Sd (%) Chl (r	ng/L) MBT (lb/bbl) Sol (%)	Calcium (mg/L) Mud Lost (Hole) Mud Lost (Surf)
Avg Background Gas (%)	Avg Connection Gas (%)	Avg Drill Gas (%)	Avg Trip Gas (%)
PUMP OPERATIONS			
No. Make	Model	Stroke (in) Liner Stze (in)	P (max) (psi) Vol/Stk (bbl/stk) Vol/Stk OR (bbl/stk)
PUMP CHECKS Make	Model	Pres (psi) Slow Spd	Strokes (spm) Eff (%) Q (gpm)
BIT INFORMATION		No	A THE RELEASE OF COMMENT OF COMME
		g ROP) (ft/hr) Depth In (ffKB) Depth Out (ffK	Total hours drilled by bit (hrs) Dull Out IADC Codes (hrs)
Size (in) Make	Type (II) (all) (ft/hr) Depth In (ftKB) Depth Out (ftKI	b) Euri Out And Codes
DAILY DRILL STRING INFORMATION Bit Run Size (in) Make Mod	Nodel Depth In (ftKB) Depth 0	Out (ftKB) Avg RÖP (Nozzles (/32")	IADC Bit Dull IADC Codes
Depth End (ftKB) SPP (psi)	Weight on Bit (1000lbf) RPM (rpm)	Drilling Torque PU HL (1000)	bf) SO HL (1000lbf) Rot HL (1000lbf)
DAILY HYDRAULICS Max Open Hole AV (fl/min) Max Casing AV (fl/min)	(ft/min) Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	ydraulic Power (hp) HP/Area (hp/in²)
BOTTOM HOLE ASSEMBLY DETAIL Jts Item Description:	OD (in)	ID (in) Top Threa	d Lên (ft) Cum Len (ft)
MUD USAGE			
	Description		Consumed On Loc
CONSUMABLES:	Supply Item Description		Consumed Cum On Loc
SAFETY CHECKS - JSA Date Type	Description 2		Comment
Date Type			The control of the co
MD (ftKB) Incl (*)	Azm (°) TVD (ftKB)	VS (ft) NS	(fi) DLS (*/100ft)
			1



The Houston Exploration Company

Report Date: 12/18/2006 AFE#: 05-6558

Report Printed: 7/20/2007

Cost Type:

Daily Drilling Report

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Stubbs & Stubbs Const Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation: Drilling Hours (hrs):

www.peloton.com

Rig Name/No: 00 Lease: ML-11124

Lease: ML-11124
County: Uintah
State: Utah
Depth End (ftKB):
Depth End (TVD) (ftKB):
Depth Progress (ft):
Average ROP (ft/hr):

CASING	PROGR	AIVI SON			ngovernessoner.	
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Report Nu					Da	ays From S	pud (day	s): -53.	63							
12/17/2006	06:00 -	12/18/20	006 06:00	K (74 - 14)				24hr Fore	aet							
Operations at F Building loo			olete				·	Off	.a31							
Remarks																
DAILY CO	NTACTS															
Trevor Mur				Job (Contact				44.00		(45) 807(0):		50.585 J	Position		
TIME LOG																
From	HRS. (hrs)		Location	ription	No M	Movement 1	77.5775.			De	cription OP				59,010 N.E.	
06:00 06:30	0.50 9.00	00	Location		Loca	tion is nearl										
						hour on doz lade cleanir			nd a haif h	hours	on					
15:30	14.50	00	Location	Work	i	lovement										
COSTS																
Daily Cost Total	al 950	Cumula	ative Cost 29,024	Total AF	E Amou 626,0	3	otal AFE Sup)	Working	g Intere 100		Daily Mud Co	st	Cu	mulative M	lud Cost
MUD PRO		\$ 100					1,742	2712								
Mud Type	MW (lb		FV (s/qt)	PV Overrid	e (cb)	YP (lbf/100ft²)	рН	STAR PRINCESSMAL	Gel(10sec) (li	lbf/ G	el(10min) (lb	of/ WL (mL/30	min)	HTHP (mL/	30min) LC	CM
Filter Cake (/3:	2") Pf (mL.	Pm (m	O (%)	W (%)		Sd (%)	Chl (mg/	L)	MBT (lb/bbl)	s	ol (%)	Calcium (n	ng/L)	Mud Lost (i	Hole) Mu	ud Lost (Surf)
Ávg Backgroui	nd Gas (%)		JA	vg Connection	Gas (%	•)		Avg Drill (Gas (%)			Avg T	rip Gas	(%)		
**********		unger 1845		, X	Rijiyasa	[2.4]85;14]76 5:2 .5	85.72.834 3			*:(0)		Syracus Section		ngar car		
PUMP OP	ERATIO	NS							1							Vol/Stk OR
No.		Ma	ake			Model		Stroi	(e (in)	Liner	Size (in)	P (max) (ps	i)	Vol/Stk (b	bl/stk)	(bbl/stk)
																Taringo La Majaria
PUMP CH	ECKS	M	ake			Model		Pres	(psi)		w Spd	Strokes (spm) [Eff (%)		Q (gpm)
11-51							Report S				No	25.00	/2011 A			
BIT INFOR	RMATION	1				Total dep		- 1		T						Total hours drilled by bit
Size (in)		Make		Туре		drilled by (ft)	bit Avg R (all) (f		oth In (ftKB)	Depl	h Out (ftKB)	Dull Out		IADC C	odes	(hrs)
		. 1 2							15.7		717000				Jan Ster	
		ING INF	ORMATION	1	Dec	oth In (ftKB)	Depth Out	(ftKB)	Avg ROP (Nozzle	ıs (/32")	IADC Bit D	الد		ADC Code	es
Dit Nasi	26 (11)	Marco					<u> </u>	`								
Depth End (fth	KB)	SPP (psi)	v	Veight on Bit (1000lbf)	RPM (rpm)		Drilling T	orque	PU	HL (1000lbf)	SO H	L (1000	Hbf)	Rot HL (1000lbf)
Max Open Ho	le AV (ft/mir	1) M	lax Casing AV (ft/	min)	Bit Je	t Velocity (ft/s)	<u>id 3. 9999 (1918)</u>	Bit Press	ure Drop (psi	i)	Bit Hyd	raulic Power (h)	HP/Are	a (hp/in²)	34, 344
	1.1011111111111111111111111111111111111				i essia											
BOTTOM Jts	HOLE A	SSEMB Ite	LY DETAIL m Description			OD (in)		ID (in) [9	op Thread		Len (f)	Cu	m Len (ft)
		* : :////		Paraph <mark>il</mark> phos	B.CRISCOV					120A.70					Hagilas	
MUD USA	\GE				Descri	ption						Cor	nsumed		С	n Loc
11.7301			ji narawa Mijiri Bersali.		Dogori					948 T. F. C. C.	entre contest to the work		11.5211000		norma a sec	
CONSUM	ABLES								100			Consumed			Cum C)n Loc
		11.110.11.1		Supply Ite	m Desc	ription	1000		i de la companya de		Y 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Consumed	<u> 1651,241</u>		Julie	// L90
SAFETY	CHECKS	- ISA	\$ 2.55 1 12.54													
Date			Type	110000000000000000000000000000000000000	4.30 /f(a)	Descri	ption	11.5				Comr	nent			
Survey D	ata								VC (A)		NC (A))	ĖΛ	/ (ft)	l Di	LS (°/100ft)
M	ID (fikb)		Incl (*)	Azm (°)	18,000,000	TVD (ftK	B)		VS (ft)	3 100 100	a Cossi No. III	V riversitätissi suuriv				
		~	\													

Page 1/1



Report Date: 12/17/2006 AFE#: 05-6558

Cost Type:

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Stubbs & Stubbs Const

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:
Drilling Hours (hrs):
Report Number: 7.0

Rig Name/No: 00 Lease: ML-11124

County: Uintah
State: Utah
Depth End (ftKB):
Depth End (TVD) (ftKB):

Depth End (TVD) (ftKB Depth Progress (ft): Average ROP (ft/hr):

	SEEN CE	101 X 221		Set Depth		Dens
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	(TVD) (ftKB)	Run Date	(lb/gal)
14	36.75		60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

	ber: 7.0	,			Da	ays From Sp	ud (days):	-54.63					
2/16/2006 0 perations at Rep uilding locat emarks	port Time	2/17/200 % comple						Forecast Iding location					
AILY CONT				Job (Contact							Position	
	y											various de la company de l Company de la company de l	
From HF	RS. (hrs)	Code	Descr	iption					D	escription OP			
5:00 5:30	0.50 11.50		Location V			novement ition is now 6	5% complet						
3.30	11.50	00	Location	VOIK		hours on two			on bla	ade.			
8:00	12.00	00	Location V	Vork	No n	novement		Sagaran dan d	GS versie		104-244 C.	Water retirations, const	
OSTS aily Cost Total 2,950	0	Cumulati	ve Cost 26,074	Total AF	E Amou 626,0		al AFE Sup	Workir		rest (%) D	aily Mud Cost	Cumula	ative Mud Cost
IUD PROPE ud Type	ERTIES MW (ib/g	jal) F	FV (s/qt)	PV Overrid	le (cp)	YP (lbf/100ft²)	рН	Gel(10sec) ((ibf/	Gel(10min) (lbf/	WL (mL/30min)	HTHP (mL/30m	in) LCM
Iter Cake (/32")	Pf (mL	Pm (m (O (%)	W (%)		Sd (%)	Chi (mg/L)	MBT (lb/bbl))	Sol (%)	Calcium (mg/L)	Mud Lost (Hole) Mud Lost (Sur
g Background	Gas (%)		Av	g Connection	Gas (%	o)	Avg	Drill Gas (%)			Avg Trip Gas	s (%)	
	1 V 2012 10 1			ere televisi (v e ele	45 24 884 F.:	aria-alaman (Co			649 ts Gr			(285.X)(27lb.	Mar ingawata
UMP OPER	RATION	S					- T	-					Vol/Stk O
Nö.		Mak				Model		Strokë (in)	Line	er Size (in)	P (max) (psi)	Vol/Stk (bbl/s	and the second second second second
UMP CHEC	CKS	Mak	•			Model		Pres (psi)	S	low Spd 5	Strokes (spm)	Eff (%)	Q (gpm)
IT INFORM	MATION												Total ho
Size (in)		Make		Туре		Total depth drilled by b (ft)		Depth In (ftKB)	De	opth Out (ftKB)	Dull Out	IADC Code	drilled by
AILY DRIL		NG INFO	RMATION Model		Dep	oth In (ftKB)	Depth Out (ftKE	Avg ROP (Noz	zles (/32")	IADC Bit Dull	JADO	Codes
epth End (ftKB)) S	SPP (psi)		eight on Bit (1000lbf)	RPM (rpm)	Dril	ling Torque	P	PU HL (1000lbf)	SO HL (100	Olbf) Ro	t HL (1000lbf)
AILY HYDI lax Open Hole			x Casing AV (ft/n	nin)	Bit Je	t Velocity (ft/s)	Bit	Pressure Drop (ps	si)	Bit Hydrau	lic Power (hp)	HP/Area (h	p/in²)
OTTOM H	OLE AS	SEMBL'	Y DETAIL Description			OD (in)		ID (in)		Top Thread	Len (ft)	Cum Len (ft)
NUD USAG	E				Descri	otion					Consumer	d	On Loc
ONSUMAI	BLES										Consumed		Cum On Loc
	JEOVO	104		Supply Ite	an Desc	ipioi							
Date	IEUNO .	JOA	Туре	T. H. S.	\$50 A	Descrip	tion				Comment		
Survey Data MD (a (ftKB)		Incl (°)	Azm (°)		TVD (RKB)	VS (fi)		NS (ft)	E	N (ft)	DLS (*/100ft)



Report Date: 12/16/2006 AFE#: 05-6558

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Stubbs & Stubbs Const

Field Name: API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:

Rig Name/No: 00 Lease: ML-11124

Lease: ML-11124
County: Uintah
State: Utah
Depth End (ftKB):
Depth End (TVD) (ftKB):
Depth Progress (ft):
Average ROP (ft/hr):

3/10/11/0	PROGR/	338,700	for any production of the second	Opening of the control of the	And the contests of the contests of	*****
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

Report Numb				Days From S	pud (days): -{	55.63				
12/15/2006 06 Operations at Repo Building location	ort Time				24hr Fo Build	precast ing location				
Remarks										Start masser, and the start of
DAILY CONTA	ACTS						I w		Position	
Trevor Murray	skilezis Eksesii.		Job Co	ntact					Califoli	
TIME LOG					1116		Description OP			
06:00	S. (hrs) Co 1.00 00 10.50 00	Location Location	Work	No Movement Work is 55% dor 13 hrs on two do	ne.					
17:30	12.50 00	Location		No Movement			areasayan o pesti in new			\$4-4-000 (Fridge-19)
COSTS		nulative Cost	Total AFE	Amount ITe	otal AFE Sup	Working Inte	erest (%)	aily Mud Cost	Cumulativ	e Mud Cost
Daily Cost Total 4,753	Curi	23,124		326,000	State To Concession		00.00			erana eta ante 1200 eta
MUD PROPE	RTIES MW (lb/gal)	FV (s/qt)	PV Override	(cp) YP (lbf/100ft²)	pH	Gel(10sec) (lbf/	Gel(10min) (lbf/	WL (mL/30min)	HTHP (mL/30min)	LCM
Filter Cake (/32")	,		W (%)	Sd (%)	Chi (mg/L)	MBT (lb/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf)
			lvg Connection (rill Gas (%)		Avg Trip Gas	i (%)	
Avg Background G	ias (%)		wg Connection C	3 45 (76)	/ Y S	045 (70)			entre etimetetete	ang paggarang
PUMP OPER	ATIONS				1					Vol/Stk OR
No.		Make		Model	S	troke (in) Lir	ner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	(bbl/stk)
PUMP CHEC	KS									
No.		Make.		Model	F F	Pres (psi)	Slow Spd 5 No	Strokes (spm)	Eff (%)	Q (gpm)
BIT INFORM	ATION									
				Total dep drilled by	bit Avg ROP		in a second		IADC Codes	Total hour drilled by t (hrs)
Size (in)	Make		Type	(ft)	(åll) (ft/hr)	Depth in (ftKB) C	epth Out (ftKB)	Dull Out	IADC Codes	
DAILY DRILL	STRING IN	NFORMATION						W. S. S. S. S.	lIADC C	
Bit Run Size (ii	n) Make	Mod	lel	Depth In (ftKB)	Depth Out (ftKB)	Avg ROP (No	zzies (/32")	IADC Bit Dull	IADC	
Depth End (ftKB)	SPP (p	si)	Weight on Bit (10	000lbf) RPM (rpm)	Drillin	g Torque	PU HL (1000lbf)	SO HL (100	Dibf) Rot F	IL (1000lbf)
DAILY HYDR Max Open Hole A		Max Casing AV (ft	/min)	Bit Jet Velocity (ft/s)	Bit Pro	essure Drop (psi)	Bit Hydrau	lic Power (hp)	HP/Area (hp/ii	n²)
	100-1	DLY DETAIL	6							
Jts Jts	LE ASSEM	IBLY DETAIL Item Description		OD (in)	ID	(in)	Top Thread	Len (1	t)	Cum Len (ft)
						# 1				
MUD USAGE				Description	7.00 2.00 7.76			Consumed		On Loc
CONSUMAB	LES		Supply Iten	n Description				Consumed	Cu	m On Loc
								600		
SAFETY CHI Date	ECKS - JSA	Type		Descri	iption			Comment		
Survey Data			20 Julius 20			NO A	NO (A)	EV.	V (ft)	DLS (*/100ft)
MD (ft	iKB)	Incl (*)	Azm (°)	TVD (fik	(B)	VS (ft)	NS (ft)		¥ (11)	DEGLYTON
1										



Report Date: 12/15/2006 AFE#: 05-6558

Cost Type:

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Stubbs & Stubbs Const

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00 Target Formation:

Rig Name/No: 00 Lease: ML-11124

County: Uintah State: Utah Depth End (ftKB):

Depth End (TVD) (ftKB): Depth Progress (ft):

CASING PROGRAM et Depl (TVD) (ftKB) Dens Fluid (lb/gal) Set Depth (ftKB) Wt (lbs/ft) Grade 36.75 A-... 24.00 J-55 Run Date 12/20/2006 OD (in) 60 1/4/2007 8 5/8 780

Drilling H Report No	ours (hrs):					Average R Days From		r):	-56.63							
12/14/200 Operations at Building Ic Remarks	Report	Time							1	Forecast Iding location	on			N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			
DAILY CO	ONTAC	TS															
Trevor Mu					<u>J</u>	ob Contact	t <u> </u>								Position		
TIME LO	3											Description OP					
From::::06:00 06:30		0.50 (9.50 (Locatio	escription on Work on Work	35% hou	Movement 6 of location irs on the location sign	on now b blade.		n eight hou		wo dozers,	and eight	and a h	alf		
16:00	14	4.00	00	Location	n Work	No	Movement	t									
costs																	
Daily Cost To	otal 330	<u> </u>	Cumulati	ve Cost 18,371	Tota	AFE Amo 626,		Total AFI	Sup	Wo		erest (%) 00.00	Daily Mud	Cost	Cu	ımulative	Mud Cost
MUD PRO		r IES N (lb/g:	al) 18	V (s/qt)	PV Ove	erride (cp)	YP (lbf/100f	1²) pH		IGel(10se	c) (lbf/	Gel(10min) (It	of/ WL (ml	_/30min)	HTHP (mL	/30min) L	СМ
Filter Cake (/					W (%)		Sd (%)		(mg/L)	MBT (lb/b		Sol (%)		n (mg/L)	Mud Lost (Hole) N	fud Lost (Surf)
Avg Backgro	und Gas	(%)			Avg Connec	tion Gas (%)		Avg	Drill Gas (%)			A	g Trip Ga	s (%)		
	Sen A	no Ne							<u> </u>								
PUMP OF	PERAI	IUNS) Mak	9			Model			Stroke (in)	Lin	er Size (in)	P (max)	(psi)	Vol/Stk (t	obl/stk)	Vol/Stk OR (bbl/stk)
DUMP ČL	JECKS																
PUMP CI No.	IECK		Mak	9			Model			Pres (psi)		Slow Spd No	Strokes (spm)	Eff (%)		Q (gpm)
BIT INFO	RMAT	ION						14									Total hours
Size (in)			Make		Ту	pe	drilled	depth I by bit ft) (a	wg ROP all) (ft/hr)	Depth in (ftk	(B) D	epth Out (ftKB)	Dull 0)ut .	IADC C	odes	drilled by bi
DAILY DI	_ 	TRIN	G INFO	RMATIO	v ii												A
	Size (in)	Ma			odel	De	epth In (ftKB)	Depth	Out (ftKB	Avg ROP	(No:	zzies (/32")	IADC B	it Dull		IADC Cod	les
Depth End (f	tKB)	Si	PP (psi)		Weight on I	3it (1000lb	of) RPM (rpr	m)		ling Torque		PU HL (1000lbf	S	O HL (100	Olbf)		(1000lbf)
DAILY H' Max Open H				c Casing AV	(ft/min)	Bit J	let Velocity (flu	is)		Pressure Drop	(psi)	Bit Hyd	raulic Power	(hp)	HP/Are	ea (hp/in²)	
BOTTOM Jts	HOLI	E ASS	SEMBL'	Y DETAIL Description			OD (in)			ID (in)	1	Top Thread		Len (ft)	Cı	im Len (ft)
MUD US	AGE					Desc	ription							Consume			On Loc
CONSUM	/ABLE	ŝ			Suppl	y Item Des	scription						Consur	ned		Cum	On Loc
SAFETY	CHEC	KS -	JSA										C	omment			
Survey [Data			Type	Azm (·		escription (fiKB)		VS (ft)	ı	NS (fi			N (ft)		DLS (°/100ft)
	MD (ftKB			mot (4 av				······································	18923	AND THE STATE OF STAT		Marian Marian				I	



Report Date: 12/14/2006 AFE#: 05-6558

Cost Type:

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Stubbs & Stubbs Const

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:
Drilling Hours (hrs):
Report Number: 4.0

Rig Name/No: 00 Lease: ML-11124

County: Uintah
State: Utah
Depth End (ffKB):
Depth End (TVD) (ffKB):

Depth End (TVD) (ftKE Depth Progress (ft): Average ROP (ft/hr):

	PROGRA		Market Services	0.0.0		- B
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

							_		ys): -5	7.63							
6 06:	00 - 12/1	4/200	6 06:00	18 (1.4) 18 16 (1.4)			Jan 199		24hr Fo	recast							
catio	on, 25% c	omple	te		·				1		on						
		T111731 380	agendiis saras		\$7.18.50 SOMETR	Pariso e con	South Control	Talka yang kanala sa	1253,5 (C. 1008)					Tylwins.			PINA PARASA
NTA	CTS		<u> </u>		Job C	ontact									Position		
rray		A CARLO CON	<u></u>	100000000000000000000000000000000000000	niezeste t			. 1900 to 100 to 100			3 83 87 84			2.163 ₂ 42M			i ji v h. maih
3	76-21	Codo		Descripti	00	1						Description OP				Îsv, sili	
	12.00 00		Locati	ion Wo	rk				nd roa	d into loc			zers and a	blade.			
	12.00 00	TESTERS.	Locat	ion Wo	ork	No m	ovement										
tal	C	umulati						Total AFE Su	ip	Wor			Daily Mud C	ost	Cu	mulative M	lud Cost
74 1		THE SE	14,041	7.116.11	12/41/2002	626,00	00				1	00.00		TRACTS			
		F	V (s/qt)	F	V Override	(cp) Y	P (lbf/100ft) pH		Gel(10se	c) (lbf/	Gel(10min) (lb	f/ WL (mL/3	Omin)	HTHP (mL	/30min) LC	М
32")	Pf (mL Pn	ı (m () (%)	v	V (%)	s	id (%)	Chl (mg	/L)	MBT (lb/b	obl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole) M	ud Lost (Surf)
und G	as (%)			Avg C	onnection	Gas (%)			Avg Dr	ill Gas (%)			Avg	Trip Gas	j s (%)		
		nije po	14350111			en de la composition della com								1465	MATE SE		
PER	ATIONS								1		Ť				T		Vol/Stk OR (bbl/stk)
+	<u>Militerye</u>	Mak	3		1430195		Model		S	roke (in)	Lir	ner Size (in)	P (max) (p	osijana	Volvstik (i	obi/stk)	(Dollary)
IECI	⟨S														F# (W)		Q (gpm)
		Mak	5	4557 435			Model		Р	res (psi)		No Spa	Strokes (sp	n)	EII (70)		Q.(gpm)
RM/	TION							T y					1				Total hou
							drilled	by bit Avg		D11-12-1811	(D)	Seeth Out (BKB)	Doll On		IADO O	odes	drilled by I
	M	ake			Туре			, (an) (10111)	pebru in (rik	(B) L	Jepti i Out (itkb)	Duli Ou		× noo v	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			RMATIC	ON	54.04 185.70					le non		((22))	UADC PA	iii Null		IADC Code	
lize (ir	n) Make)		Model		Dept	h in (ftKB)	Depth Ot		AVG ROP	(NO	ozzies (/32)	IADC BILL	Juli 			
tKB)	SPP	(psi)		Weig	ht on Bit (1	1000lbf)	RPM (rpm)	Drilling	Torque		PU HL (1000lbf)	so	HL (100	Olbf)	Rot HL (1000lbf)
	<u> </u>														Y Visited		
		Ma	x Casing A	V (ft/min) 	Bit Jet	Velocity (ft/	i)						hp)	HP/Are	a (hp/in²)	
	. – 4605		V DETA	nt K										10.15			
HU	LE ASSE						OD (in)		ID	(in)		Top Thread		Len (ft)	Cu	m Len (ft)
								<u> </u>			<u> </u>						
AGE					11771118	Descrip	tion						C	onsume	3	ila ja C	n Loc
			34,381						4-2-1								
MABI	LES			1100 A	Supply Ite	m Descri	ption				- 77		Consume	d		Cum C	n Loc
			er Spanier								111						
CHE	CKS - J	SA	Туре				De	scription					Con	nment	zstili, gra		
	l.					(1000), 700					X			onto ats		1 0	_S (°/100ft)
	50000000	1018411		Nº 61 1 2 11 5 32	Azm (°)	44 364	י פעד	ftKB)	9/10/07	VS (ft)	A JUNE	NS (ft))	EV	// (ft)		L3 (/100it):
Data MD (fil	KB)		Incl (°)	405 1.524					l			1					
Data	KB)		Incl (*)									1	I				
Data	KB)		Incl (*)					<u> </u>									
Data	KB)		incl (*)														
Data	KB)		Incl (*)									1					
Data	(B)		Incl (*)	***													
	Imberson Imb	Report Time cation, 25% control of the cation, 2	S 06:00 - 12/14/200 Report Time cation, 25% completed PNTACTS Code 12.00 00 12.00 00 12.00 00 13.00 12.00 00 14.00 12.00 00 15.00 12.00 00 16.00 12.00 00 17.00 12.00 00 18.00 1	S	S	### Section	Sociol - 12/14/2006 06:00 Report Time Cation, 25% complete	Section 12/14/2006 06:00 Report Time Cation, 25% complete	Make	Section	AND PROPERTIES Secretary Process Proces	Days From Spud (days): -57.63 3 06:00 - 12/14/2006 06:00 Report Time Report Ti	Social 12/41/2006 12/41/2	Society	Days From Spud (days): -57, 63 Solidor -12/14/2006 06:00 Seport Time 24th Forecast Sullding location	Seption Spud (days): -57.63 Report Time Cation, 25% complete Seption Spud (days): -57.63 S	Days From Spud (days)



Report Date: 12/13/2006 AFE#: 05-6558

Cost Type:

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Stubbs & Stubbs Const

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E

Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:

Rig Name/No: 00 Lease: ML-11124

County: Uintah State: Utah Depth End (ftKB):

Depth End (TVD) (ftKB): Depth Progress (ft): Average ROP (ft/hr):

CASING PROGRAM Dens Fluid (lb/gal) Set Depth (ftKB) (TVD) (ftKB) Wt (lbs/ft) Grade 36.75 A-... 24.00 J-55 OD (in) 14 60 12/20/2006 1/4/2007 780 8 5/8

Report Num					D	ays From Sp	oud (days	s): -58.63						
12/12/2006 (Operations at Re Transport ec Remarks	eport Time	····	06 06:00 tion, location	5 % done			1	24hr Forecast Build locatio	on					
DAILY CON	ITACTS				524								6. 17. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	
Trevor Murra		111111111111111111111111111111111111111		Job C	ontact						200 Z 100 Z		Position	
TIME LOG														
	HRS. (hrs) 5.00	Code 00	Location	cription Work		Movement				Description OP				
11:00	4.00	00	Location	Work	Con	ed equipmen tact Bill Jr. ar ered Location	nd gave a	tentative s	chedule d	of when dirt v	vork wil	l be done	. 12/12/06	
15:00	15.00	00	Location	Work	No I	Movement			altoc sofiala turo		10000 00024	#12-QKD-C-60-0	1830 L. T. J. FEB W. K. 228 F. F.	988 E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
COSTS Daily Cost Total 540		Cumula	ntive Cost 6,904	Total AF	E Amoi 626.0		tal AFE Sup		Working Inte	erest (%) 00.00	Daily Me	ud Cost	Cumu	lative Mud Cost
MUD PROP		v 62 (190) 7 (34) - 11												
Mud Type	MW (lb/g	jal)	FV (s/qt)	PV Override	e (cp)	YP (lbf/100ft²)	рН	Gel(1	Osec) (lbf/	Gel(10min) (lbf	7 WL (i	mL/30min)	HTHP (mL/30r	min) LCM
Filter Cake (/32	") Pf (mL	Pm (m	O (%)	W (%)		Sd (%)	Chl (mg/L	.) MBT	(lb/bbl)	Sol (%)	Calci	um (mg/L)	Mud Lost (Hol	e) Mud Lost (Surf
Avg Background	d Gas (%)	L	I A	vg Connection	Gas (9	6)		Avg Drill Gas (%)	<u> </u>		Avg Trip Gas	s (%)	
PUMP OPE	PATION											411		
No.	-roa i ion	S Ma	kė			Model		Strake (in) Lin	er Size (in)	P (me	ex) (psi)	Vol/Stk (bbl/s	Vol/Stk OF stk) (bbl/stk)
											19-504554-1			
PUMP CHE	CKS	Ma	ıké		Alberton	Model		Pres (psi)	12 84	Slow Spd	Strokes	(spm)	Eff (%)	Q (gpm)
					garagas.					No				
BIT INFOR	MATION					Total depl	th	1				serien. Granda		Total hou
Size (in)		Make		Type		drilled by I (ft)			i(ftKB) D	epth Out (ftKB)	Dul	l Out	IADC Code	drilled by (hrs)
5			1. 1		SKOL-									
		NG INF	ORMATION Mod	el	De	pth In (ftKB)	Depth Out	(ftKB) Avg I	ROP (No	zzies (/32")	IADC	Bit Dull	IAD	C Codes
Dit Nutr	,													
Depth End (ftKi	B) S	SPP (psi)	\	Weight on Bit (1000lbf) RPM (rpm)		Drilling Torque	i	PU HL (1000lbf)		SO HL (100	UIDT) R	ot HL (1000lbf)
DAILY HYE	DRAULIC	S												
Max Open Hole			lax Casing AV (ft	/min)	Bit Je	et Velocity (ft/s)		Bit Pressure D	rop (psi)	Bit Hyde	aulic Pow	ver (hp)	HP/Area (t	np/in²)
BOTTOM H	HOLE AS	SEMB	LY DETAIL											
Jts			n Description			OD (in)		ID (in)		Top Thread		Len (1	t),	Cum Len (ft)
MUD USAG	GE .													
MICE COA			125 12 1472		Descr	iption					2 3 3464	Consumed		On Loc
CONSUMA	ARI EQ													
CONSCINI	NDLLO			Supply Ite	m Des	cription					Cons	umed	V	Cum On Loc
SAFETY C	HEUKS	ISA												
Date	, III ONG		Туре		Street,	Descrij	otion		200		11 1 3 3 3 3 T	Comment		iting so detail dus
Survey Da	ıta		1221/85	Azm (°)	1		В)	W. A. J. W	ft)	NS (ft)] EV	V (ft)	DLS (*/100ft)
MU) (fiKB)		Incl (°)	AZIII ()	20 1133	IVD AIGN								
1														



Report Date: 12/11/2006 AFE#: 05-6558

Cost Type:

Well Name: HACKING RESERVOIR 7-32-8-25

Contractor: Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation: Drilling Hours (hrs): Rig Name/No: Lease: ML-11124

County: Uintah
State: Utah
Depth End (ftKB):

Depth End (TVD) (ftKB): Depth Progress (ft): Average ROP (ft/hr):

307573	12420 (S.B.B. S. S. V.	LOWER	ELECTIVE LATER	Set Depth		Dens
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	(TVD) (ftKB)	Run Date	Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

			Days From S	pud (days):	60.63				
2/5/2006 06:00 - 12/11/20	06 06:00			24hr F	orecast				
lo movement					l road & locati	ion			
		CHASEVINE				WAR STEEL			
DAILY CONTACTS		Job Conta	ct					Position	
revor Murray									
From HRS. (hrs) Cod	e Descri	otlon				Description OP			
06:00 00	Location W	ork No	movement						
COSTS Daily Cost Total Cumu	ative Cost 6,364	Total AFE An	nount To	otal AFE Sup	Working	Interest (%) 100.00	Daily Mud Cost	Cumulativ	e Mud Cost
MUD PROPERTIES flud Type MW (lb/gat)	FV (s/qt)	PV Override (cp) YP (lbf/100ft²)	рН	Gel(10sec) (lb	f/ Gel(10min) (lbf/	WL (mL/30min)	HTHP (mL/30min)	LCM
ilter Cake (/32") Pf (mL Pm (m.	. 0 (%)	W (%)	Sd (%)	Chi (mg/L)	MBT (lb/bbl)	Sol (%)	Calcium (mg/L)	Mud Lost (Hole)	Mud Lost (Surf
Avg Background Gas (%)	Avg	Connection Gas	(%)	Avg [Orill Gas (%)		Avg Trip Gas	s (%)	
PUMP OPERATIONS			Model		Stroké (in)	Liner Size (in)	P (max) (psi)	Vol/Stk (bbl/stk)	Vol/Stk OF (bbl/stk)
No.	ake		Model		suene (III)	and seed that	, and the same	page on a more	
PUMP CHECKS	eke		Model	Total	Pres (psi)	Slow Spd	Strokes (spm)	Eff (%)	Q (gpm)
						No			
BIT INFORMATION			Total der						Total hou
Size (in) Maké		Туре	drilled by (ft)	bit Avg ROP (all) (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)	Dull Out	IADC Codes	drilled by (hrs)
								Žet ne i se	
DAILY DRILL STRING INF Bit Run Size (in) Make	ORMATION Model		Depth In (ftKB)	Depth Out (ftKB)	Avg ROP (Nozzies (/32")	IADC Bit Dull	IADC C	odes
Depth End (ftKB) SPP (psi)	100	ight on Bit (1000	bf) [RPM (rpm)	Drillin	ng Torque	PU HL (1000lbf)		Dibf) Rot H	L (1000lbf)
Septit End (IRRS)		ig. ii on bii (1000		70.73.24 (27.23.14.23.14.23.14.23.14.23.14.23.14.23.14.23.14.23.14.23.14.23.14.23.14.23.14.23.14.23.14.23.14.2					
DAILY HYDRAULICS Max Open Hole AV (ft/min)	Max Casing AV (ft/mi	n) Bit	Jet Velocity (ft/s)	Bit P	ressure Drop (psi)	Bit Hydra	ulic Power (hp)	HP/Area (hp/in	²)
BOTTOM HOLE ASSEME	LY DETAIL em Description		OD (in)	i i) (in)	Top Thread	Len (it)	Cum Len (ft)
MUD USAGE		Des	scription				Consume	1	On Loc
CONSUMABLES		Supply Item De	escription				Consumed	Cur	n On Loc
							P\$ -50		
SAFETY CHECKS - JSA	Туре		Descri	ption			Comment	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
Date									namen jager proje
Date Survey Data MD (ftKB)	Incl (°)	Azm (°)		B)	VS (ft)	NS (ft)	E)	V (ft)	DLS (*/100ft)



Report Date: 12/5/2006 AFE#: 05-6558 **Cost Type:**

Report Printed: 7/20/2007

Well Name: HACKING RESERVOIR 7-32-8-25

Field Name:

API: 43047375710000

Surface Legal Location: SW NE S32 T8S R25E Target Depth (ftKB):

Original KB Elevation (ft): 5,455.00

Target Formation:

Rig Name/No:

Lease: ML-11124 County: Uintah State: Utah Depth End (ftKB): Depth End (TVD) (ftKB):

Depth Progress (ft):

CASING	PROGR/	AM 2		fideladztungt <u>a</u>	Reprinted the property of the	water a
OD (in)	Wt (lbs/ft)	Grade	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	Run Date	Dens Fluid (lb/gal)
14	36.75	A	60		12/20/2006	
8 5/8	24.00	J-55	780		1/4/2007	

No. Make Model Stroke (in) Liner Size (in) P (max) (psi) Vol/Stk (bbl/stk) (bbl/stk PUMP CHECKS No. Make Model Pres (psi) Slow Spd Strokes (spm) Eff (%) Q (gpm) No. Make Model Pres (psi) No. No. Total depth Research Control of the depth Research	rilling Hou						verage ROF ays From S		: -66.63						
Consumable State & BLM Walt for Blue Stakes Conformation Making contacts with BLM, dirt contractor, and Blue Stakes, so that everything will be ready to the state of the st			5/2006	06:00		(5) (4)		124	thr Forecast		3 (2000) 1 (2000) 1 (2000)				
NET CONTACTS Sever Murrary ME LOG From 1998 (NY) Sever Murrary ME LOG From 1998 (NY) Sever Murrary ME LOG	tify contra		State &	BLM	± - 181.					Stakes	s Conformati	on			
Note	iarks					W1005 - 12.500	sc n/s i je ma r isokkista i .		on on the St. of The Commission	an an Salar		entifologoageses: 2176a.com	w.c.n/w.c.c.	gggrafigla and gal	**************************************
No.	ILY CON	ITACTS	มกโฟรหล้						Liketon 11	1,2811			Position		
Making contacts with BLM, dirt contractor, and Blue Stakes, so that everything will be ready to start building of new location with BLM, dirt contractor, and Blue Stakes, so that everything will be ready to start building of new location.	vor Murr	ay			⊕6.g.,,,,,,,JOD (ontact			2.4 (1.4 (1.4 (1.4 (1.4 (1.4 (1.4 (1.4 (1	228 (1 to 1,3 to 2				120038611111111	. annual settlemen
Description					, ak						Decedelles OR				
STS						to sta BLM BLM BLM	art building of Lands and wildlife biol aeologist, r	of new loca Realty, not ogist, notific notified 11/3	tion. ified 12/4/06 ed 11/29/06 30/06		l Blue Stakes	s, so that every	thing will	be ready	garan Inggan
Your Total Comment Cost Comment Cost Co	:00	19.00	00	Location V	Vork	inac	tive								
Vicinit Total Counting Cost Cos	STS														
DPROPERTIES	y Cost Tota		Cumulat		Total AF			otal AFE Sup	Wo	_		Daily Mud Cost		Cumulative N	nud Cost
Type		a alignica,								Ç.	Section 1				
Spackground Gas (%) Ang Drill G			al)	FV (s/qt)	PV Overrid	le (cp)	YP (lbf/100ft²)	рН	Gel(10se	c) (lbf/	Gel(10min) (lb	f/ WL (mL/30min)	HTHP (nL/30min) LC	CM
JMP OPERATIONS No. Make Model Stroke (in) Liner Size (in) P (max) (pel) Vol/Six (bbrists) Vol/Six (bb	er Cake (/32	2") Pf (mL	Pm (m	O (%)	W (%)		Sd (%)	Chl (mg/L)	MBT (lb/i	obl)	Sol (%)	Calcium (mg/L)	Mud Lo	st (Hole) Mi	ud Lost (Surf)
No. Make Model Stroke (in) Liner Size (in) P (misc) (per) VollSk (bb/risk) (Backgroun	nd Gas (%)		Avg	Connection	Gas (%	<u> </u> (6)	 	vg Drill Gas (%)			Avg Trip G	Sas (%)		***
No. Make Model Stroke (in) Liner Size (in) P (max) (per) Vollsk (obviet) (o										Sign :			n satist		
JMP CHECKS No. Make Model Pres (pe) Slow Spd Strokes (spm) Eff (%) Q (gpm) No T INFORMATION Size (in) Make Type drilled by bit Avg ROP (in		ERATIONS							Stroke (in)		iner Size (in)	P (max) (psi)	Vol/St	k (bbl/stk)	Vol/Stk OR (bbl/stk)
Model Presipent Slow spin	No.		Ma	K O	Problem Communication Communic	19109/81	Woder 12:22 12	3947/323907	guerre (III)	280 CARCA	Land to the second second second second	ennes et se est et en		Land to the Confession to	
TINFORMATION Size (in) Make Type defined by bit, (it) Depth in (RKB) Depth Out (RKB) Depth Out (RKB) Depth Out (RKB) Depth in (RKB) Depth in (RKB) Depth in (RKB) Depth in (RKB) Depth Out (RKB) Depth in (RKB) Depth i	MP CHE	ECKS							0		Slov Snd	Strokes (som)	F# /	<u> </u>	Q (apm)
Size (in) Make Type (it) Avg ROP (all) (fth) Depth In (ftkB) Depth Out (ftkB) Dull Out IADC Codes of the filled by (it) (fth) Depth In (ftkB) Depth Out (ftkB) Depth In (ftkB) Depth Out (ftkB) Dull Out IADC Codes (fthe filled by it) Dull Out IADC Codes (fthe filled by it	No.	gastrangje:	Ma	Ke .	Section 1	SSHEET ST	Model		Pres (psi)			Strokes (spin)		9 /17-49(3:3-117	a (abiii)
Size (in) Make Type did by bit drilled by bit drill	T INFOR	MATION													
Size (in) Make Type (10 (air) (init) Depth Out (init) Dep							drilled by	bit Avg RO						n nadaa	drilled by (hrs)
Run Size (in) Make Model Depth In (fit(B) Depth Out (fit(B) Avg ROF (Nozzies (32) Including the Description Rot HL (1000lbf) ROTHL	Size (in)	Hannikiji a	Make		Туре	95339	35,500	(all) (rvn	r) Depth In (fti	(B)	Depth Out (TIKB)	Duii Out	I I I I I I I I I I I I I I I I I I I	3 Codes	
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